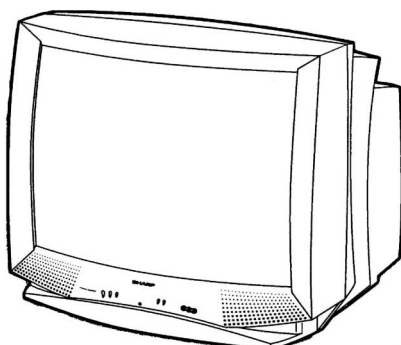


**SHARP****SERVICE MANUAL**

S40Y732N-S400

**COLOR TELEVISION****Chassis No. SN-002****MODELS****32N-S400, 36N-S400  
CN32S40, CN36S40**

In the interests of user-safety (Required by safety regulations in some countries ) the set should be restored to its original condition and only parts identical to those specified should be used.

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**ELECTRICAL SPECIFICATIONS**

|                                    |                                   |
|------------------------------------|-----------------------------------|
| POWER INPUT .....                  | 120V AC 60 Hz                     |
| POWER RATING                       |                                   |
| 32N-S400, CN32S40 .....            | 140W                              |
| 36N-S400, CN36S40 .....            | 165W                              |
| PICTURE SIZE                       |                                   |
| 32N-S400, CN32S40 .....            | 3,073cm <sup>2</sup> (476sq inch) |
| 36N-S400, CN36S40 .....            | 3,905cm <sup>2</sup> (605sq inch) |
| CONVERGENCE .....                  | Magnetic                          |
| SWEEP DEFLECTION .....             | Magnetic                          |
| FOCUS .....                        | Hi-Bi-Potential Electrostatic     |
| INTERMEDIATE FREQUENCIES           |                                   |
| Picture IF Carrier Frequency ..... | 45.75 MHz                         |
| Sound IF Carrier Frequency .....   | 41.25 MHz                         |
| Color Sub-Carrier Frequency .....  | 42.17 MHz                         |
|                                    | (Nominal)                         |

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| AUDIO POWER                |                                                        |
| OUTPUT RATING .....        | 2.5W + 2.5W (at 10% distortion and<br>Dual CH Operate) |
| SPEAKER                    |                                                        |
| SIZE .....                 | 12 x 6 cm (2 pcs.)                                     |
| VOICE COIL IMPEDANCE ..... | 6 ohm at 400 Hz                                        |
| ANTENNA INPUT IMPEDANCE    |                                                        |
| VHF/UHF .....              | 75 ohm Unbalanced                                      |
| TUNING RANGES              |                                                        |
| VHF-Channels .....         | 2 thru 13                                              |
| UHF-Channels .....         | 14 thru 69                                             |
| CATV Channels .....        | 1 thru 125                                             |
|                            | (EIA, Channel Plan U.S.A.)                             |

***Specifications are subject to change without prior notice.***

**SHARP CORPORATION**

This document has been published to be used for after sales service only.  
The contents are subject to change without notice.

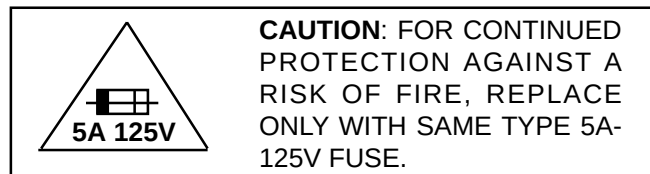
## IMPORTANT SERVICE SAFETY PRECAUTION

■ Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.

To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)**

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

### X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.

It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.

2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver. Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

# IMPORTANT SERVICE SAFETY PRECAUTION

## (Continued)

### BEFORE RETURNING THE RECEIVER

#### (Fire & Shock Hazard)

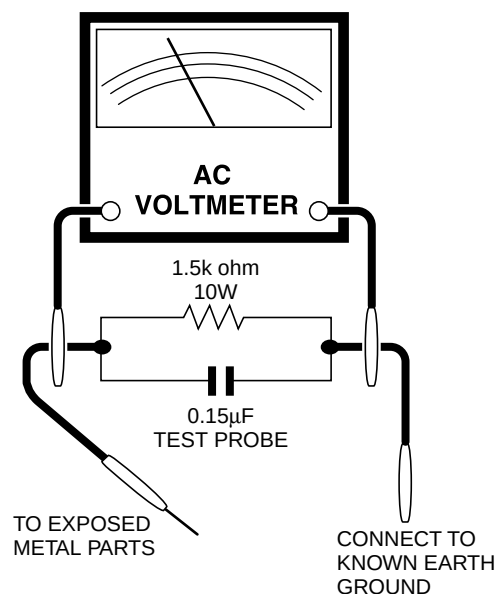
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
  - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon and etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



### SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage and etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " $\triangle$ " and shaded areas in the **Replacement Parts Lists** and **Schematic Diagrams**.

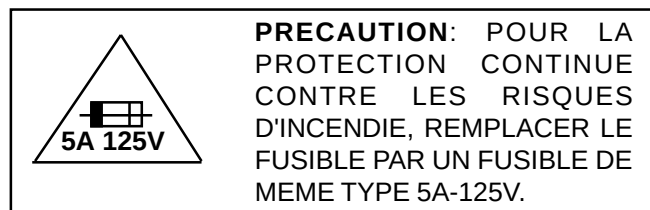
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

## PRECAUTIONS A PRENDRE LORS DE LA REPARATION

■ **Ne peut effectuer la réparation qu' un technicien spécialisé qui s'est parfaitement accoutumé à toute vérification de sécurité et aux conseils suivants.**

### AVERTISSEMENT

1. N'entreprendre aucune modification de tout circuit. C'est dangereux.
2. Débrancher le récepteur avant toute réparation.
3. Les déversoirs thermiques à semi-conducteurs peuvent présenter un danger de choc électrique lorsque le récepteur est en marche.
4. Le châssis de ce récepteur possède deux systèmes de masse qui sont séparées par du matériel d'isolation. Le système de masse non-isolée (sous tension) est pour le circuit du régulateur de tension B+ et le circuit de sortie horizontale. Le système de masse isolée est pour les tensions DC B+ basses et le circuit secondaire du transformateur haute tension. Pour éviter tout risque d'électrocution lors de l'entretien de ce châssis, utiliser un transformateur d'isolation entre le cordon de ligne et la prise de courant.



### REPARATION DU SYSTEME A HAUTE TENSION ET DU TUBE-IMAGE

**Lors de la réparation de ce système, supprimer la charge statique en branchant une résistance de 10 k $\Omega$  en série avec un fil isolé (comme une sonde d'essai) entre la mise à la terre du tube-image et le fil d'anode. (Le cordon d'alimentation doit être retiré de la prise murale.)**

1. Le tube image dans ce récepteur emploie une protection intégrée contre l'implosion.
2. Par mesure de sécurité, changer le tube-image pour un tube du même numéro de type.
3. Ne pas lever le tube-image par son col.
4. Ne manipuler le tube-image qu'en portant des lunettes incassables et qu'après avoir déchargé totalement la haute tension.

### LIMITES DES RADIATIONS X ET DE LA HAUTE TENSION

1. Tout le personnel réparateur doit être instruit des instructions et procédés relatifs aux radiations X. Le tube-image, seule source de rayons X dans les téléviseurs transistorisés, n'émet pourtant pas de rayons mesurables si la haute tension est maintenue à un niveau préconisé dans la section "Vérification de la haute tension". C'est seulement quand la haute tension est excessive que les rayons X peuvent entrer dans l'enveloppe du tube-image y compris le conducteur de verre. Il est important de maintenir la haute tension en-dessous du niveau spécifié.
2. Il est essentiel que le réparateur ait sous la main un voltmètre à haute tension qui doit être périodiquement étalonné.
3. La haute tension doit toujours être maintenue à la valeur de régime -et pas plus haute. L'opération à des tensions plus élevées peut entraîner une panne du tube-image ou du circuit à haute tension et, dans certaines conditions, peut entraîner une radiation dépassant les niveaux prescrits.
4. Quand le régulateur à haute tension fonctionne correctement, il n'y a aucun problème de radiation X. Chaque fois qu'un châssis couleurs est réparé, la luminosité doit être examinée tout en contrôlant la haute tension à l'aide d'un voltmètre pour s'assurer que la haute tension ne dépasse pas la valeur spécifiée et qu'elle soit correctement réglée.
5. Ne pas utiliser un tube-image autre que celui spécifié et ne pas effectuer de modifications déconseillées du circuit à haute tension.
6. Lors de la recherche des pannes et des mesures d'essai sur un récepteur qui présente une haute tension excessive, éviter de s'approcher inutilement du récepteur.  
Ne pas faire fonctionner le récepteur plus longtemps que nécessaire pour localiser la cause de la tension excessive.

# PRECAUTIONS A PRENDRE LORS DE LA REPARATION

(Suite)

## VERIFICATIONS CONTRE L'INCENDIE ET LE CHOC ELECTRIQUE

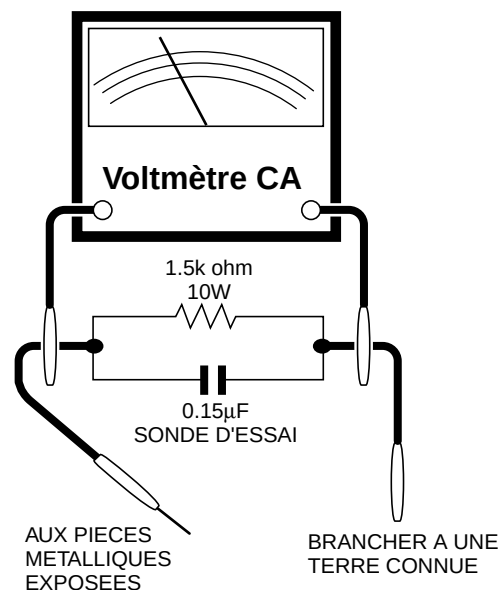
**Avant de rendre le récepteur à l'utilisateur, effectuer les vérifications suivantes.**

1. Inspecter tous les faisceaux de câbles pour s'assurer que les fils ne soient pas pincés ou qu'un outil ne soit pas placé entre le châssis et les autres pièces métalliques du récepteur.
2. Inspecter tous les dispositifs de protection comme les boutons de commande non-métalliques, les isolants, le dos du coffret, les couvercles ou blindages de réglage et de compartiment, les réseaux de résistance-capacité, les isolateurs mécaniques, etc.
3. S'assurer qu'il n'y ait pas de danger d'électrocution en vérifiant la fuite de courant, de la façon suivante:
  - Brancher le cordon d'alimentation directement à une prise de courant de 120V (Ne pas utiliser de transformateur d'isolation pour cet essai).
  - A l'aide de deux fils à pinces, brancher une résistance de 1,5 k $\Omega$  10 watts en parallèle avec un condensateur de 0,15 $\mu$ F en série avec toutes les pièces métalliques exposées du coffret et une terre connue comme une conduite électrique ou une prise de terre branchée à la terre.
  - Utiliser un voltmètre CA d'une sensibilité d'au moins 5000 $\Omega$ /V pour mesurer la chute de tension en travers de la résistance.

- Toucher avec la sonde d'essai les pièces métalliques exposées qui présentent une voie de retour au châssis (antenne, coffret métallique, tête des vis, arbres de commande et des boutons, écusson, etc.) et mesurer la chute de tension CA en-travers de la résistance. Toutes les vérifications doivent être refaites après avoir inversé la fiche du cordon d'alimentation. (Si nécessaire, une prise d'adaptation non polarisée peut être utilisée dans le but de terminer ces vérifications.)

Tous les courants mesurés ne doivent pas dépasser 0,5 mA.

Dans le cas contraire, il y a une possibilité de choc électrique qui doit être supprimée avant de rendre le récepteur au client.



## AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les téléviseurs présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue. Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.

Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont

identifiées par la marque " ⚠ " et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques.

Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies, radiations X ou autres accidents.

# LOCATION OF USER'S CONTROL

## Front Panel

### POWER

Press → On.  
Press again → Off.

### VOLUME UP/DOWN

(+) Increases sound.  
(-) Decreases sound.

SENSOR AREA FOR  
REMOTE CONTROL

**VIDEO/AUDIO IN 2 TERMINALS**  
(VIDEO/AUDIO terminals are also provided on the rear.)

### CHANNEL UP/DOWN

(▲) Selects next higher channel.  
(▼) Selects next lower channel.  
• Press both at same time to access MAIN MENU Screen.

## Basic Remote Control Functions

### POWER

Press → On.  
Press again → Off.

### REMOTE KEYPAD

Accesses any channel from keypad.

### FLASHBACK

Returns to previous channel.

### PERSONAL PREFERENCE

With the Personal Preference buttons, you can program your favorite programs by using the four categories A, B, C and D. The channels can be accessed quickly by using these buttons.

### VOLUME UP/DOWN

(+) Increases sound.  
(-) Decreases sound.  
• In menu mode, changes or selects the TV adjustments.

### MENU

Press → Accesses MAIN MENU.  
Press again → Exits MAIN MENU.

### TV-CATV MODE SELECT SWITCH

In TV position, sends power and channel select commands (Channel up/down and Random Access buttons) to the TV.

In CATV position, sends power and channel select commands to a cable TV converter.

### VCR CONTROL

Infrared Transmitter Window

### DISPLAY

Press → Displays receiving channel for four seconds.  
Press again → Removes display.  
• Temporarily displays receiving channel when in Closed Caption mode.

### INPUT

Press → Switch to external video INPUT 1 mode.  
Press again → Switch to external video INPUT 2 mode.  
Press three times → Switch back to the original TV mode.

### ENTER

Used in some instances where a VCR or Cable Converter Box requires an "enter" command after selecting channels, when using the REMOTE KEYPAD button.

### CHANNEL UP/DOWN

(▲) Selects next higher channel.  
(▼) Selects next lower channel.  
• Moves the "◆" mark of the MENU screens.

### MUTE

Press → Mutes sound.  
Press again → Restores sound.  
• CLOSED CAPTION appears when sound is muted.

### PIP FUNCTION

With the VIDEO inputs, you can watch two pictures at the same time.

## NOTE:

- The above shaded buttons on the Remote Control glow in the dark. To use the glow-in-the-dark display on the remote control, place it under a fluorescent light or other lighting.
- The phosphorescent material contains no radioactive or toxic material, so it is safe to use.
- The degree of illumination will vary depending on the strength of lighting used.
- The degree of illumination will decrease with time and depending on the temperature.
- The time needed to charge the phosphorescent display will vary depending on the surrounding lighting.
- Sunlight and fluorescent lighting are the most effective when charging the display.

# INSTALLATION AND SERVICE INSTRUCTIONS

**Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.  
(2) Before performing adjustments, the TV set must be on at least 15 minutes.

## CIRCUIT PROTECTION

The receiver is protected by a 5.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

## X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP653 and make sure that the voltmeter reads  $13.8 \pm 0.7V$  (32N-S400, CN32S40)/ $13.2 \pm 0.7V$  (36N-S400, CN36S40).
5. Apply external 17.0V DC (32N-S400, CN32S40)/16.2V DC (36N-S400, CN36S40) at TP653 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "S19" and Bus data "01" (Y-mute on).
4. The voltage should be approximately 32.8kV(32N-S400, CN32S40)/33.4kV(36N-S400, CN36S40) (at zero beam).

If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

**Note:** There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

### 1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

### 2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "P07". Select the item you wish to adjust.

### 3. Data number selection

Press the Vol-up or down button to adjust the data number.

### To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the sametime, plug the AC cord into a wall socket. Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

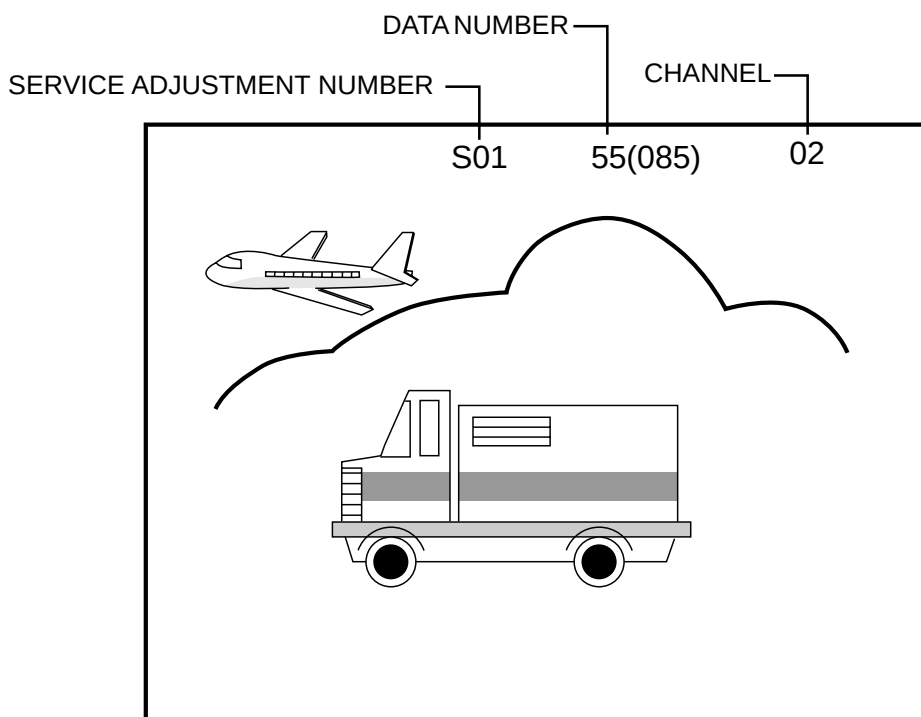


Figure A.

| SERVICE<br>NUMBER | ADJUSTMENT ITEM    | DATA          |          | ADJUSTMENT CONTENTS                                  |
|-------------------|--------------------|---------------|----------|------------------------------------------------------|
|                   |                    | INITIAL VALUE | RANGE    |                                                      |
| S01               | PICTURE            | 55            | 00-7F    | Must be set to "24"<br>Must be set to "00"           |
| S02               | TINT               | 46            | 00-7F    |                                                      |
| S03               | COLOR              | 32            | 00-7F    |                                                      |
| S04               | BRIGHTNESS         | 40            | 00-7F    |                                                      |
| S05               | SHARPNESS          | 28            | 00-3F    |                                                      |
| S06               | Vert. PHASE        | 00            | 00-07    |                                                      |
| S07               | Hor. PHASE         | 12            | 00-1F    |                                                      |
| S08               | RF AGC             | 23            | 00-3F    |                                                      |
| S09               | Vert. AMPLITUDE    | 20            | 00-3F    |                                                      |
| S10               | PIF VCO            | 2C            | 00-7F    |                                                      |
| S11               | R CUT-OFF          | 00            | 00-FF    |                                                      |
| S12               | G CUT -OFF         | 00            | 00-FF    |                                                      |
| S13               | B CUT-OFF          | 00            | 00-FF    |                                                      |
| S14               | G GAIN             | 7F            | 00-FF    |                                                      |
| S15               | B GAIN             | 7F            | 00-FF    |                                                      |
| S16               | TRAP               | 0             | 00,01    | Must be set to "01"                                  |
| S17               |                    | 00            | 00-3F    |                                                      |
| S18               | CC POSITION        | 17            | 00-FF    |                                                      |
| S19               | MUTE               | 00            | 00,01,03 | "00" : NORMAL, "01" : Y-MUTE, "03" : V-STOP & Y-MUTE |
| S20               | ENERGY SAVE OFFSET | 20            | 00-3F    | Must be set to "23"                                  |
| S21               | TIMER              | 7A            | 00-FF    | Must be set to "7A"                                  |
| S22               |                    | 00            | 00       |                                                      |
| S23               | TUNER SETUP        | 00            | 00,01    | Must be set to "00"                                  |
| OP1               | OPTION1            | 00            | 00-FF    | Must be set to "BF"                                  |
| OP2               | OPTION2            | 00            | 00-FF    | Must be set to "A7"                                  |
| M01               | INPUT LEVEL        | 0A            | 00-0F    |                                                      |
| M02               | ST VCO             | 20            | 00-3F    |                                                      |
| M03               | FILTER             | 1C            | 00-3F    |                                                      |
| M04               | WIDE BAND          | 20            | 00-3F    |                                                      |
| M05               | SPECTRAL           | 1B            | 00-3F    |                                                      |
| P01               | PIP Y-LEVEL        | 30            | 00-7F    |                                                      |
| P02               | PIP TINT           | 29            | 00-3F    | Must be set to "29"                                  |
| P03               | PIP COLOR          | 2E            | 00-7F    |                                                      |
| P04               | PIP Y-OFFSET       | 09            | 00-1F    | Must be set to "09"                                  |
| P05               | PIP H-POS.         | 0A            | 00-FF    | Must be set to "0A"                                  |
| P06               | PIP BGPM           | 00            | 00-0F    | Must be set to "00"                                  |
| P07               | PP FREERUN         | 0B            | 00-0F    | Must be set to "0B"                                  |

Table - A

Holding down both the VOL-up/CH-down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

| PART REPLACED | ADJUSTMENT |             | NOTES                                                                                                                                                                                                     |
|---------------|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | NECESSARY  | UNNECESSARY |                                                                                                                                                                                                           |
| IC2001        |            | X           | Data is stored in IC2101.                                                                                                                                                                                 |
| IC201         | X          |             | The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).                                                                                                  |
| IC2101        | X          |             | Holding down both the VOL-up/CH-down buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101. Then perform a complete adjustment. |
| CRT           | X          |             | Adjust items related to picture tube only.                                                                                                                                                                |
| IC3001        | X          |             | Adjust items related to MTS only (M01~M05).                                                                                                                                                               |
| IC1801        | X          |             | Adjust items related to P-IN-P only (P01~P07).                                                                                                                                                            |

Table - B

## ■ SERVICE ADJUSTMENT

### VCO Adjustment

1. Connect a digital voltmeter between pin (44) of IC201 and ground.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S10".
4. Adjust the data so that digital voltmeter reads 2.2V.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

### RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S08".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

**Note 1 :** You will have to come out of the service mode to select another channel.

**Note 2 :** Setting the data to "00" will produce a black raster.

### Screen Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "S03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
4. Select the service adjustment "S04" and adjust data value to "4B".
5. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
6. Adjust the service adjustments "S11" red, "S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
7. Select the service adjustment "S19" and reset data to "00". Select the service adjustment "S03" and reset data to obtain normal color level.
8. Reset the master screen control to obtain normal brightness range.

### White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set to "00" (minimum color)(Record original data code under adjustment "S03" before changing). "S03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "S14" and "S15" until a good grey scale with normal whites is obtained.
4. Select the service adjustment "S03" and adjust data to obtain normal color level.

### Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "S01".
4. Adjust the data value to achieve normal contrast range.

### Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "S02".
4. Adjust "S02" data value to obtain normal flesh tones.

### Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select service adjustment "S03".
4. Adjust "S03" data value to obtain normal color level.

## Sub-Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "S04".
4. Adjust "S04" data value to obtain normal brightness level.

## Vertical-Size and Linearity Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size.
4. Using the R502 control adjust for the best linearity.

## Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "S06".
2. Adjust data value to "00".  
**Note:** This must be set "00" when changed data retrace line will appear.

## Horizontal Position Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S07".
3. Adjust "S07" data value so that picture is centered.

## Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S18".
3. A black text box appears on the screen. (see **Figure B.** below)
4. Adjust "S18" data value so that text box is positioned in the center of the screen.

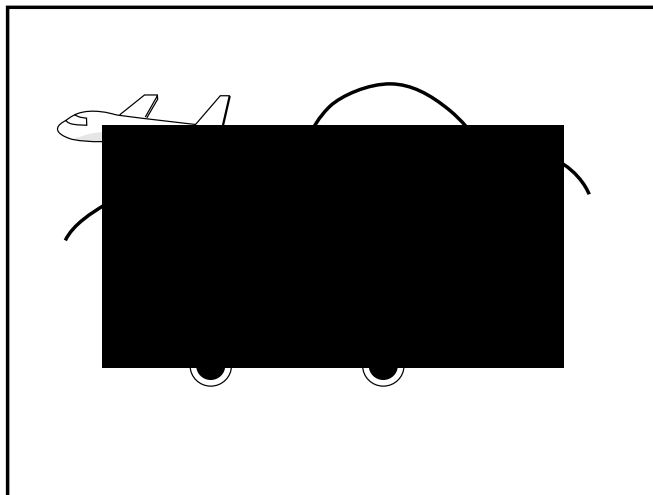


Figure B.

## 3.58MHz Trap Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S16".
3. This is a two position adjustment, "00" is ON, "01" is OFF.
4. Adjust data value to "01" for normal viewing.

## Sharpness and Audio Balance Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustments "S05" for sharpness and "S17" for audio balance.
- **Sharpness Adjustment**
3. Adjust data value to "24"(center of data range) for sharpness adjustment.
- **Audio Balance Adjustment**
4. Adjust data value to "20"(center of data range) for Audio balance adjustment.

## Vertical Center Adjustment

1. Receive a good CATV channel.
2. Adjust the S502 so that the picture is centered.

## Side Pincushion Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R676 so that the outermost line on the screen is straight.

## Horizontal Size Adjustment

1. Receive a good CATV channel or crosshatch pattern signal.
2. Adjust the R678 so that the best horizontal size.

## Energy Save Offset Adjustment

1. Enter the service mode and select the service adjustment "S20".
  2. Adjust data value to "23".
- Note :** This position is used to preset the level for the energy save function.

## Other Adjustments

1. Enter the service mode.
2. Adjust the following data values as listed below.

| SERVICE POSITION | ADJUST ITEM | DATA (Hex) |
|------------------|-------------|------------|
| S05              | SHARPNESS   | 24         |
| S06              | V-PHASE     | 00         |
| S16              | TRAP        | 01         |
| S20              | E-SAVE      | 23         |
| S21              | TIMER       | 7A         |
| S23              | TUNER SETUP | 00         |
| OP1              | OPTION1     | BF         |
| OP2              | OPTION2     | A7         |

## ■ MTS ADJUSTMENT

### MTS Level Adjustment

1. Feed the following monaural signal to pin (14) of IC3001.  
Monaural signal : 300Hz, 245mVrms
2. Connect the rms voltmeter to pin (39) of IC3001.
3. Enter the service mode and select the service adjustment "M01".
4. Adjust the data so that the rms voltmeter reads.  
Spec : 490  $\pm$ 10mVrms.

### MTS VCO Adjustment

1. Keep the unit in no-signal state.
2. Connect the frequency counter to pin (39) of IC3001.
3. Connect a capacitor (100 $\mu$ F, 50V) in between positive(+) side of C3005 and ground.
4. Enter the service mode and select the service adjustment "M02"
5. Adjust the data so that the frequency counter reads.  
Spec : 62.94  $\pm$ 0.75kHz.

### Filter Adjustment

1. Feed the following stereo pilot signal to pin (14) of IC3001 .  
Stereo pilot signal: 9.4kHz, 600mVrms.
2. Enter the service mode and select the service adjustment "M03".
3. Adjust the data until "OK" appears in position on the screen. Make sure the "OK" is displayed almost at the center of the data range.

### Separation Adjustment

1. Connect the rms voltmeter to pin (39) of IC3001.
2. Receive the following composite stereo signal 1.  
Composite stereo signal: 30% modulation, left channel only, noise reduction on, 300Hz
3. Enter the service mode and select the service adjustment "M04".
4. Adjust the data until the AC voltage reading of the RMS voltmeter is minimum.
5. Receive the following composite stereo signal 2.  
Stereo signal: 30% modulation, left channel only, noise reduction on, 3kHz
6. Enter the service mode and select the service adjustment "M05".
7. Adjust the data until the AC voltage reading of the RMS voltmeter is minimum.
8. Take the above steps 1 thru 7 again for fine adjustment.

## ■ P-IN-P ADJUSTMENT

### P-IN-P Y LEVEL Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P01".
3. Adjust "P01" data value to obtain normal contrast level.

### P-IN-P TINT Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P02".
3. Adjust data value to "29".

### P-IN-P COLOR Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position.
3. Enter the service mode and select service adjustment "P03".
4. Adjust "P03" data value to obtain normal color level.

### P-IN-P Y-OFF SET Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P04".
3. Adjust data value to "09".

### P-IN-P H-POSITION Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P05".
3. Adjust data value to "0A".

### P-IN-P BURST GATE PULSE (for MAIN)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "P06".
3. Adjust data value to "00".

### P-IN-P FREE RUN

1. Receive a good local channel.
2. Enter the service mode and select service adjustment "P07".
3. Adjust data value to "0B".

# CHASSIS LAYOUT

H

G

F

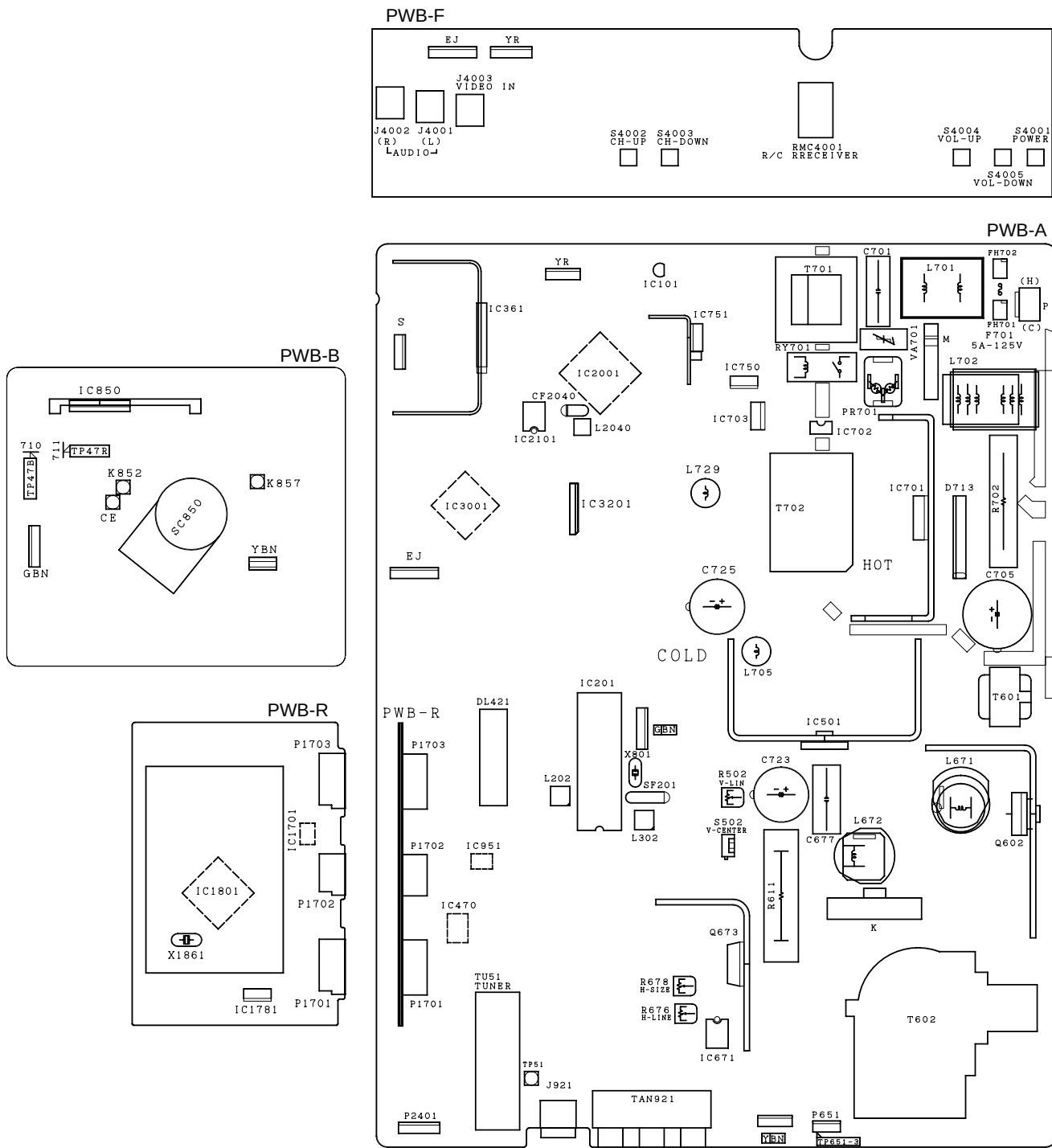
E

D

C

B

A



1

2

3

4

5

6



# DESCRIPTION OF SCHEMATIC DIAGRAM

## NOTES:

1. The unit of resistance "ohm" is omitted.  
( $K=k\Omega=1000\Omega$ ,  $M=M\Omega$ )
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors are  $\mu F$ , unless otherwise noted.  
( $P=pF=\mu\mu F$ )
4. (G) indicates  $\pm 2\%$  tolerance may be used.
5.  $\overline{\text{---}}$  indicates line isolated ground.

## VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 $\mu$  V B & W or Color signal.

## WAVEFORM MEASUREMENT CONDITIONS:

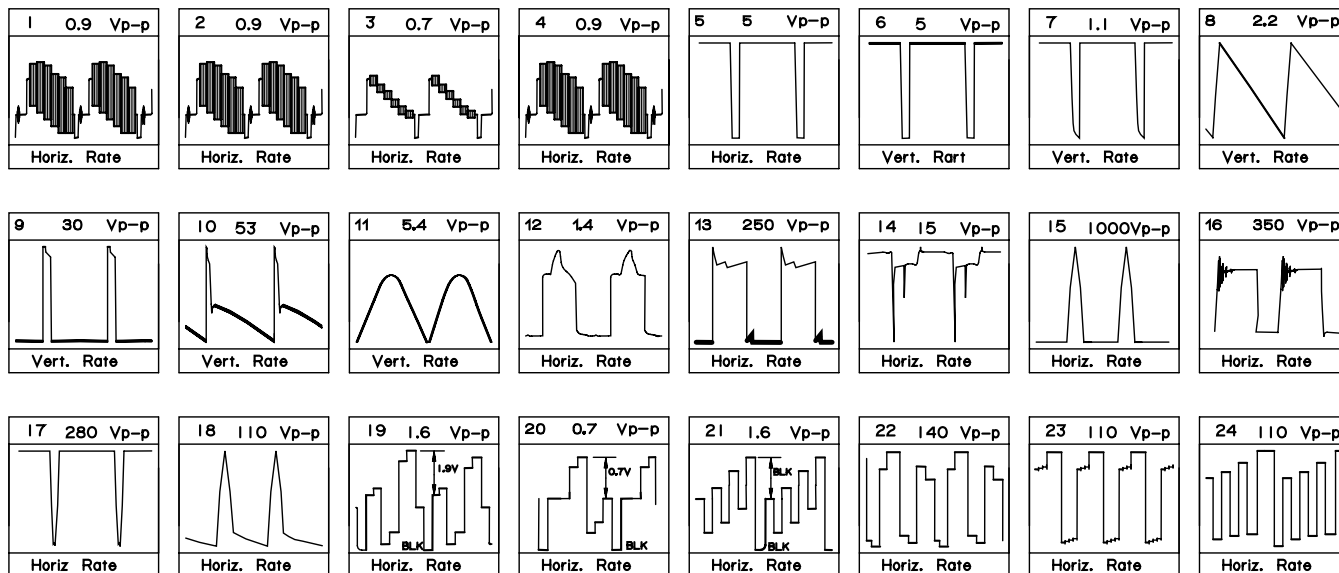
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  $\bigcirc$  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

$\triangle$  AND SHADED (  ) COMPONENTS  
= SAFETY RELATED PARTS.  
 $\blacktriangle$  MARK= X-RAY RELATED PARTS.

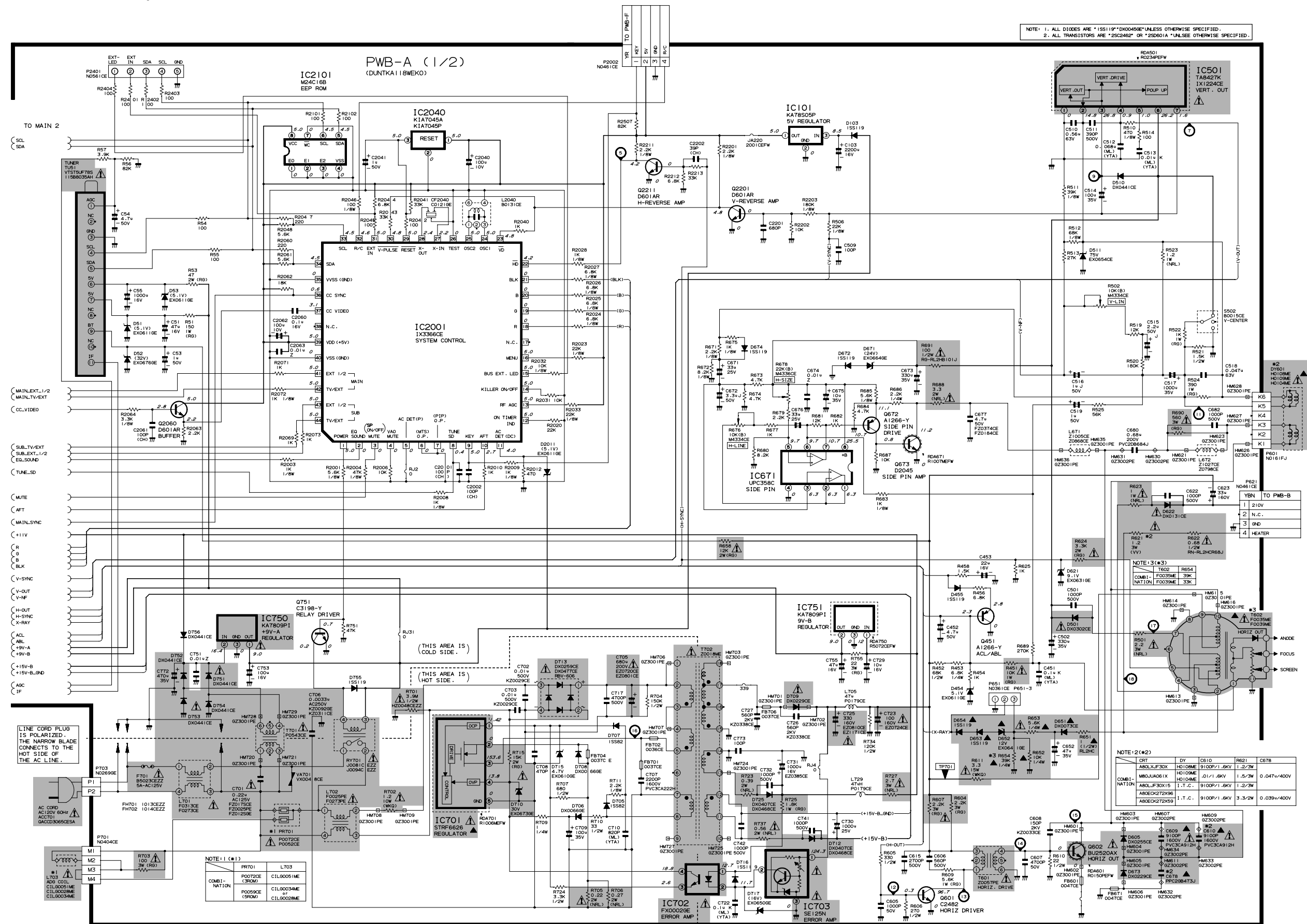
DRGANNES MARQUES  $\triangle$  ET HACHRES (  ) :  
PIECES RELATIVES A LA SECURITE.  
MARQUE  $\blacktriangle$  : PIECS RELATIVE AUX RAYONS X.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

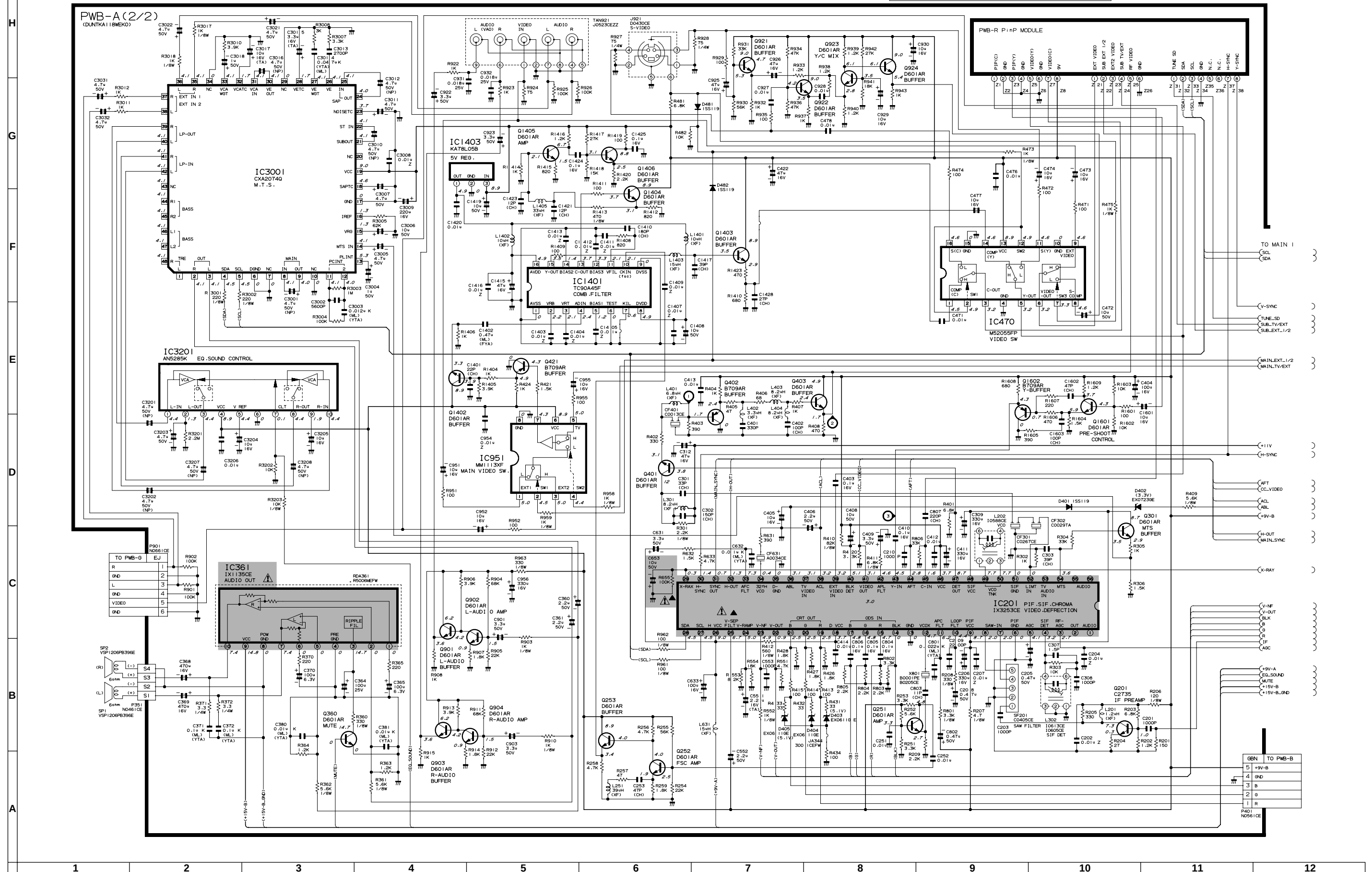
# WAVEFORMS



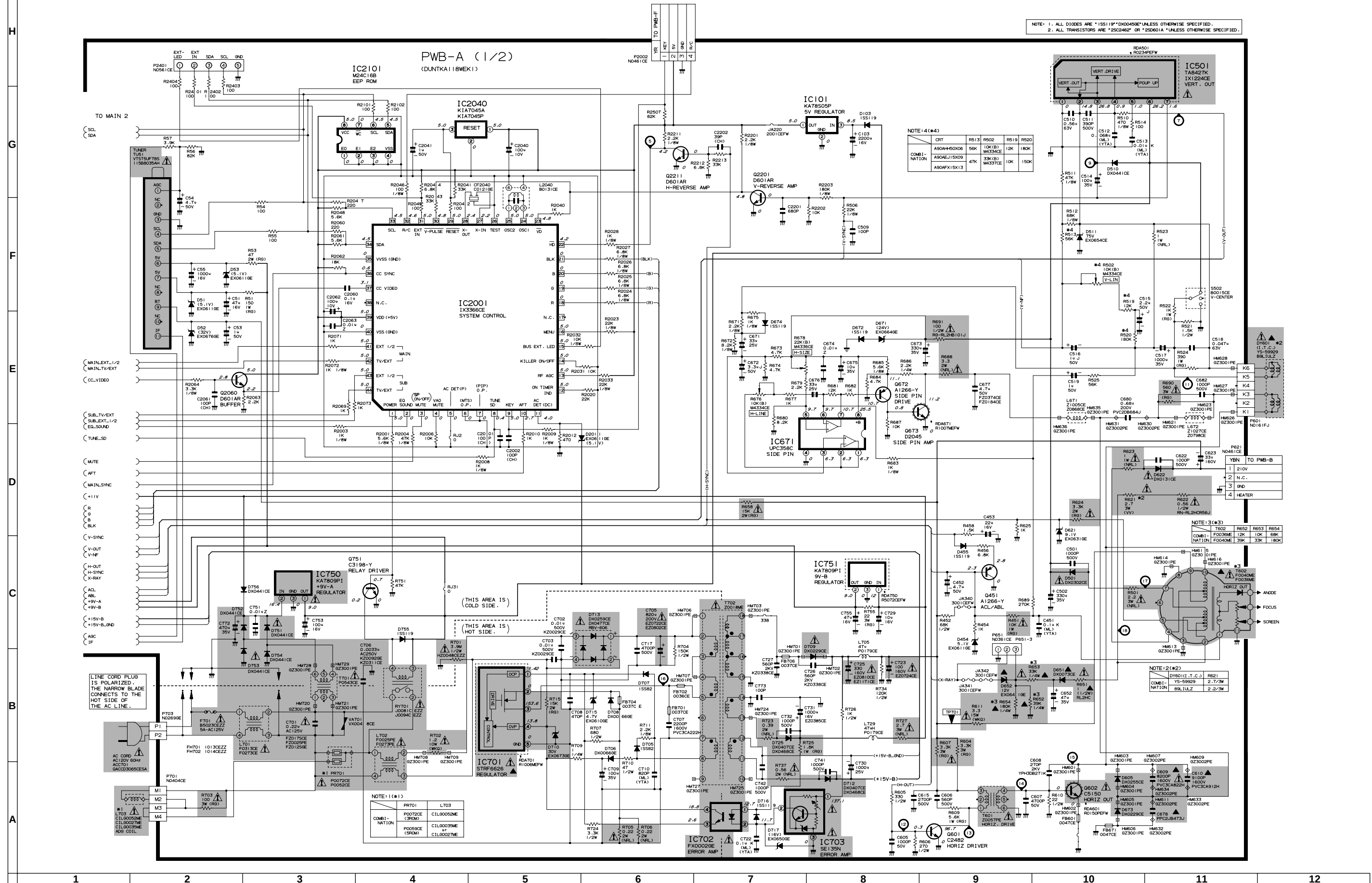
## MODELS 32N-S400, CN32S40 SCHEMATIC DIAGRAM: MAIN-1 Unit



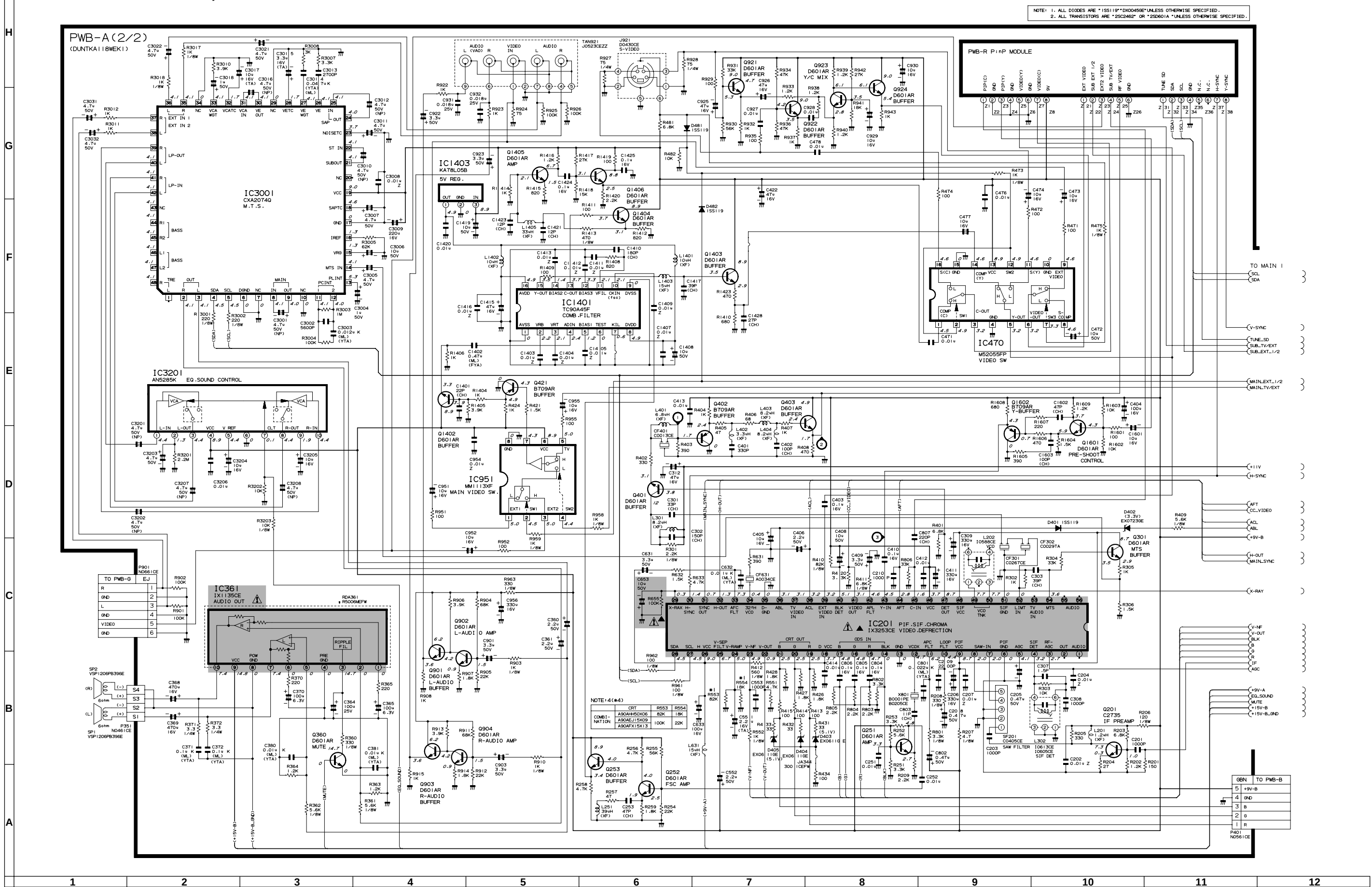
## MODELS 32N-S400, CN32S40 SCHEMATIC DIAGRAM: MAIN-2 Unit



## MODELS 36N-S400, CN36S40 SCHEMATIC DIAGRAM: MAIN-1 Unit

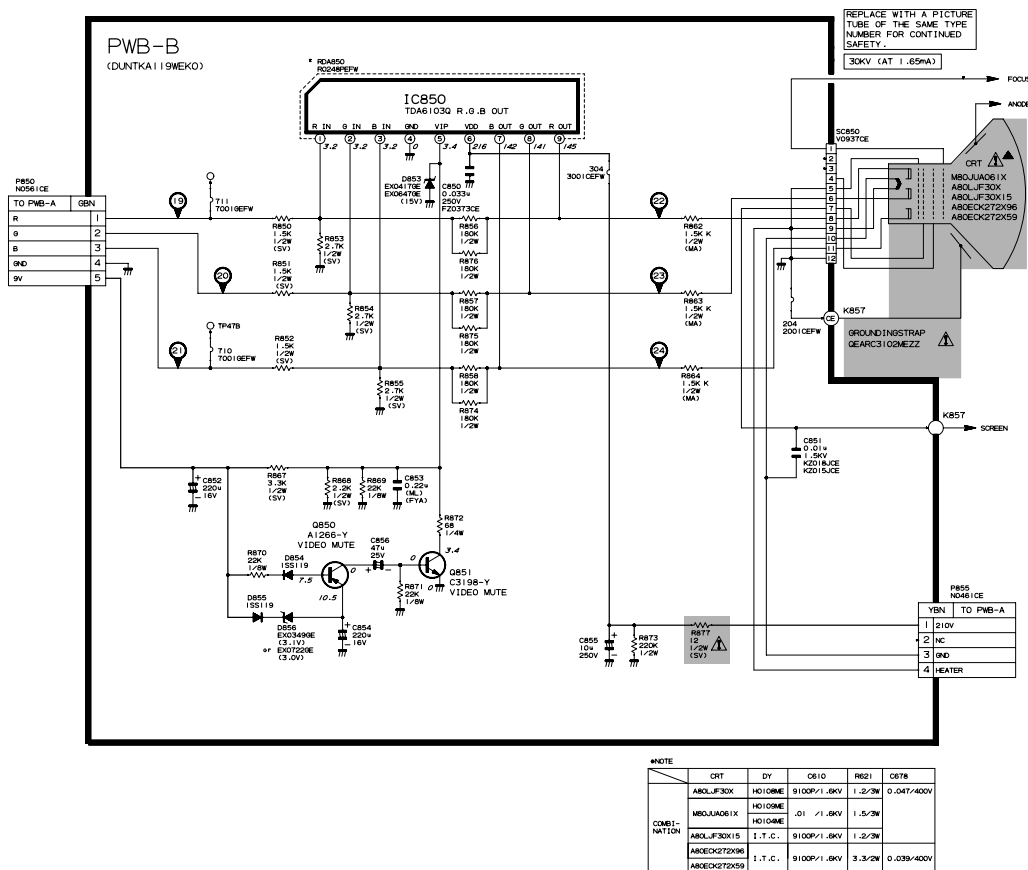


# MODELS 36N-S400, CN36S40 SCHEMATIC DIAGRAM: MAIN-2 Unit

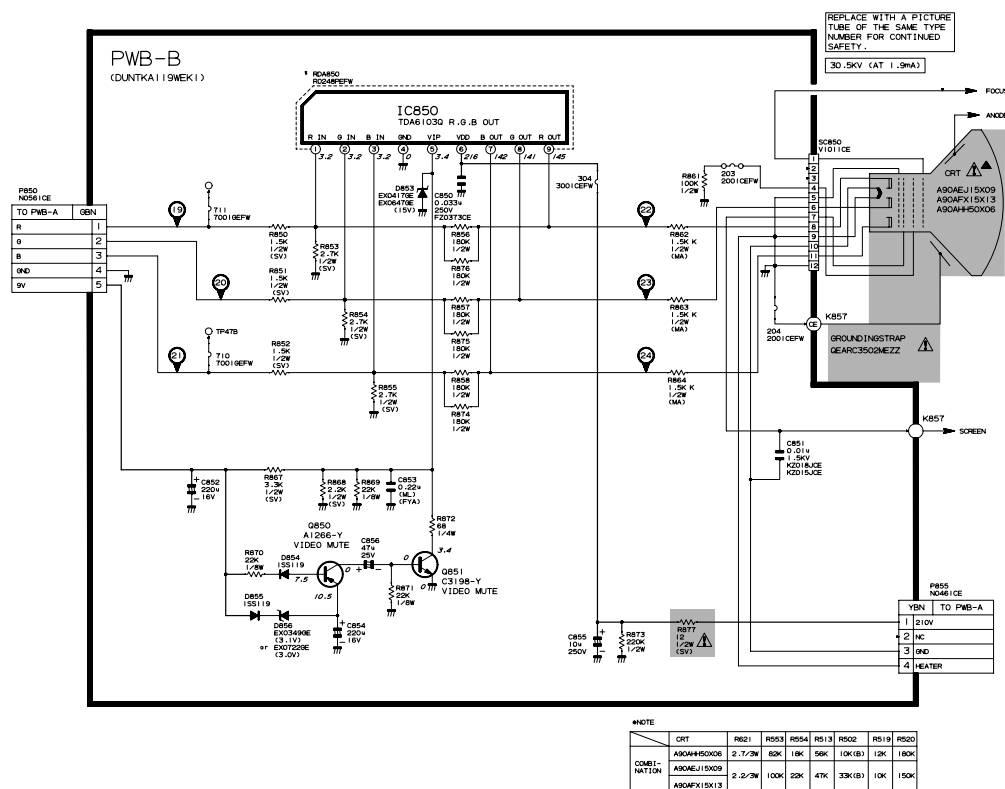


# SCHEMATIC DIARGAM: CRT Unit

## MODELS 32N-S400, CN32S40

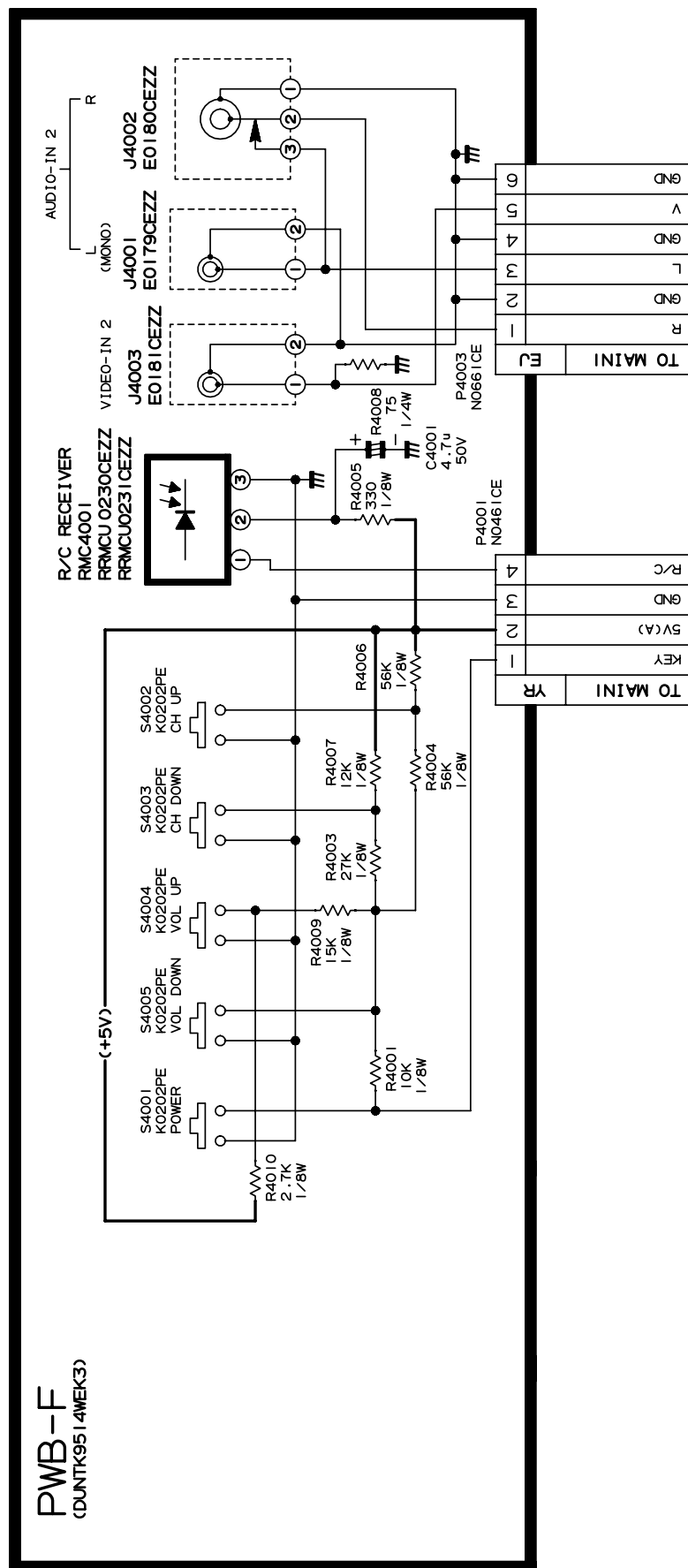


## MODELS 36N-S400, CN36S40

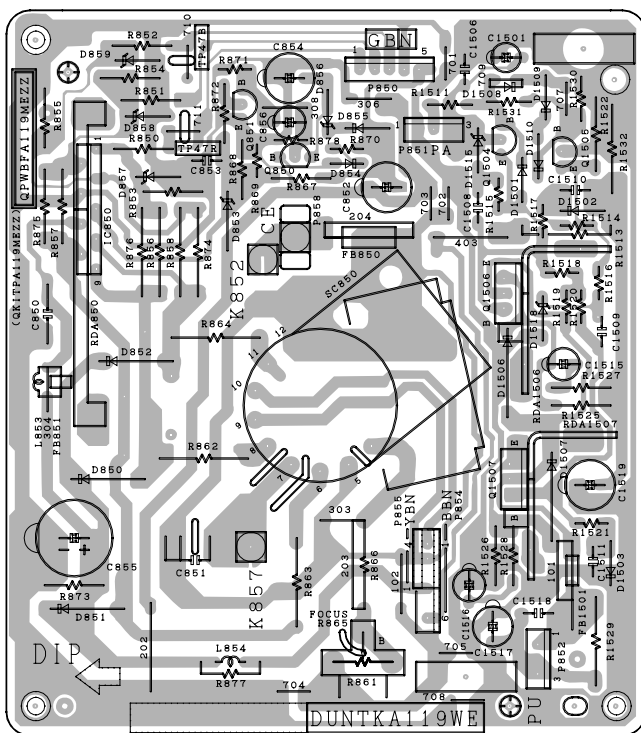




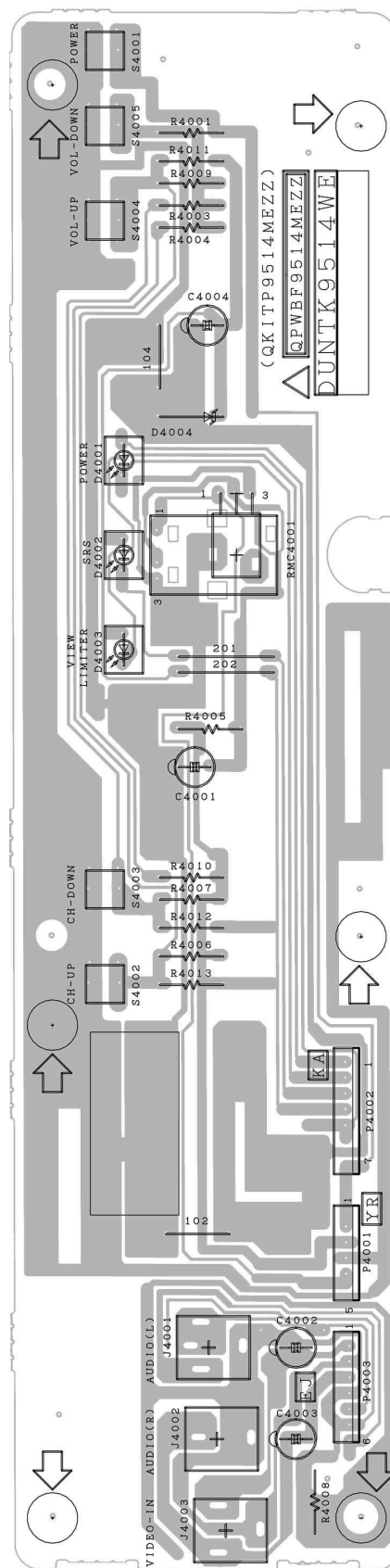
# SCHEMATIC DIARGAM: CONTROL Unit



# PRINTED WIRING BOARD ASSEMBLIES



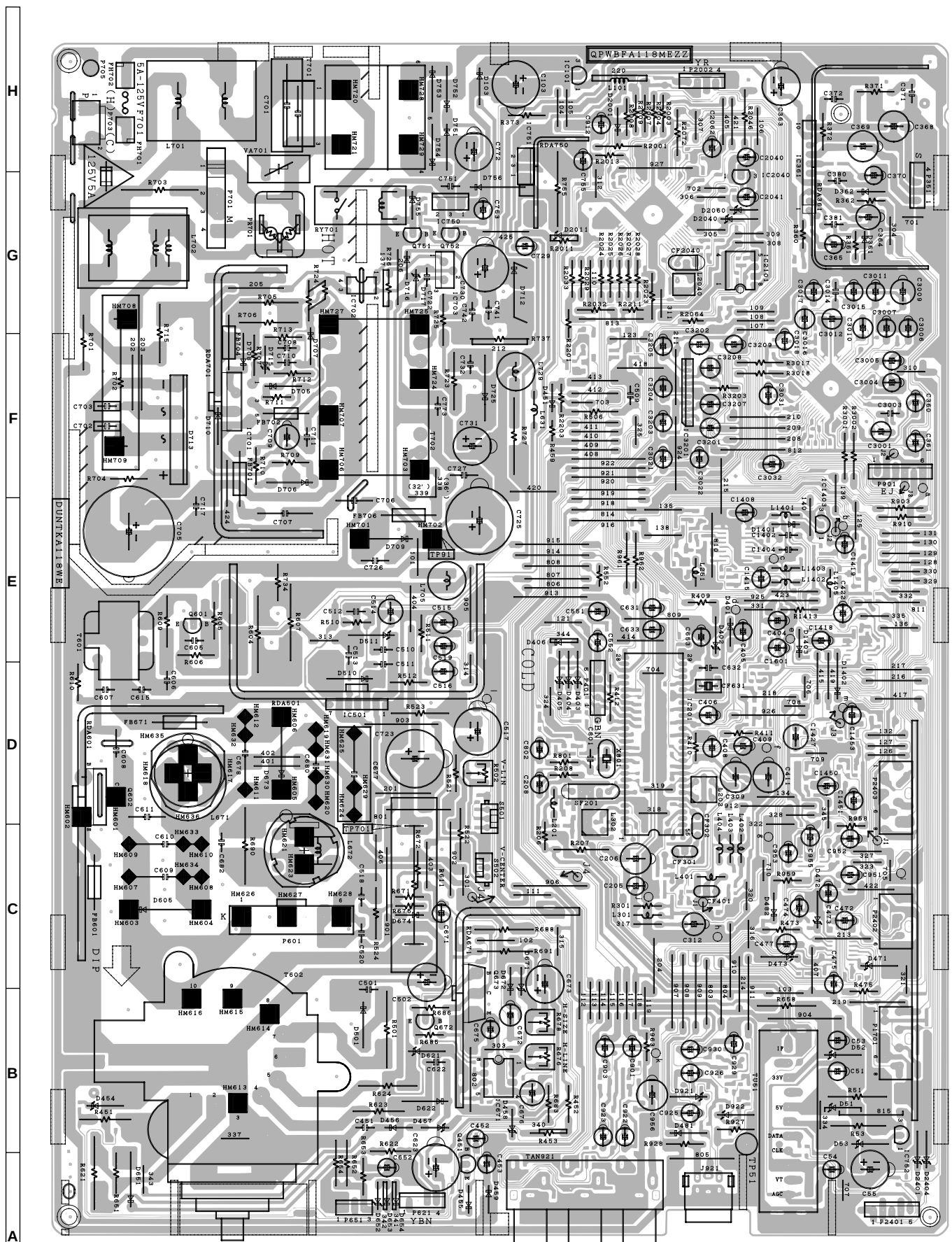
PWB-B: CRT Unit (Wiring Side)



PWB-F: CONTROL Unit (Wiring Side)

H  
G  
F  
E  
D  
C  
B  
A

1 2 3 4 5 6



PWB-A: MAIN Unit (Wiring Side)





# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  $\triangle$  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- |                 |                |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO.    |
| 3. PART NO.     | 4. DESCRIPTION |

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|----------|----------|---|-------------|------|
|----------|----------|---|-------------|------|

## PICTURE TUBE

### 32N-S400, CN32S40

|          |               |   |                                 |    |
|----------|---------------|---|---------------------------------|----|
| ▲△ V101  | VB80LJF3015*S | M | CRT (I.T.C.)                    | DD |
|          | or            |   |                                 |    |
|          | VB80ECK272X1E |   | CRT (I.T.C.)                    |    |
|          | or            |   |                                 |    |
|          | VB80ECK272X2E |   | CRT (I.T.C.)                    |    |
|          | or            |   |                                 |    |
|          | VB80LJF30X/*S |   | CRT (DY: H0108ME)               |    |
|          | or            |   |                                 |    |
|          | VB80JUA061X*S |   | CRT (DY: H0109ME or H0104ME)    |    |
| ▲△ DY601 | RCiLH0108MEZZ | M | DY (CRT: A80LJF30X)             | BV |
|          | or            |   |                                 |    |
|          | RCiLH0109MEZZ |   | DY (CRT: A80JUA061X)            |    |
|          | or            |   |                                 |    |
|          | RCiLH0104MEZZ |   | DY (CRT: A80JUA061X)            |    |
| △ L703   | RCiLG0051MEZZ | M | Degaussing Coil (PR701:P0072CE) | AT |
|          | or            |   |                                 |    |
|          | RCiLG0034MEZZ |   | Degaussing Coil (PR701:P0059CE) |    |
|          | or            |   |                                 |    |
|          | RCiLG0028MEZZ |   | Degaussing Coil (PR701:P0059CE) |    |
|          | MSPRT0002MEZZ | M | Spring for CRT                  | AA |
| △        | QEARC3102MEZZ | M | Grounding Strap                 | AH |

|              | CRT          | DY      | C610        | R621   | C678        |
|--------------|--------------|---------|-------------|--------|-------------|
| COMBI-NATION | AB0LJF30X    | H0108ME | 9100P/1.6KV | 1.2/3W |             |
|              | M80JUA061X   | H0109ME | .01/1.6KV   | 1.5/3W | 0.047u/400V |
|              | AB0LJF3015   | I.T.C.  | 9100P/1.6KV | 1.2/3W |             |
|              | AB0ECK272X96 |         |             |        |             |
|              | AB0ECK272X59 | I.T.C.  | 9100P/1.6KV | 3.3/2W | 0.039u/400V |

|              | PR701          | L703                     |
|--------------|----------------|--------------------------|
| COMBI-NATION | P0072CE (3R0M) | C1LG0051ME               |
|              | P0059CE (5R0M) | C1LG0034ME or C1LG0028ME |

# LISTE DES PIECES

## CHANGE DES PIECES

Les pièces de rechange qui présentent ces caractéristiques spéciales de sécurité, sont identifiées dans ce manuel : les pièces électriques qui présentent ces particularités, sont repérées par la marque  $\triangle$  et sont hachurées dans les listes de pièces et dans les diagrammes schématisés.

La substitution d'une pièce de rechange par une autre qui ne présente pas les mêmes caractéristiques de sécurité que la pièce recommandée par l'usine et dans ce manuel de service, peut provoquer une électrocution, un incendie ou tout autre sinistre.

### "COMMENT COMMANDER LES PIECES DE RECHANGE"

Pour que votre commande soit rapidement et correctement remplie, veuillez fournir les renseignements suivants.

- |                     |                |
|---------------------|----------------|
| 1. NUMERO DU MODELE | 2. NO. DE REF  |
| 3. NO. DE PIECE     | 4. DESCRIPTION |

in **CANADA**: Contact SHARP Electronics of Canada Limited  
Phone (416) 890-2100

★MARQUE: SECTION LIVRAISON DES PIECES DE RECHANGE

▲ MARQUE : PIECES RELATIVE AUX RAYONS X

| Ref. No. | Part No. | ★ | Description | Code |
|----------|----------|---|-------------|------|
|----------|----------|---|-------------|------|

### 36N-S400, CN36S40

|         |               |   |                                 |    |
|---------|---------------|---|---------------------------------|----|
| ▲△ V101 | VB90AHH5006*S | M | CRT (I.T.C.)                    | DV |
|         | or            |   |                                 |    |
|         | VB90AEJ1509*S |   | CRT (I.T.C.)                    |    |
|         | or            |   |                                 |    |
| △ L703  | VB90AFX1513*S |   | CRT (I.T.C.)                    |    |
|         | RCiLG0052MEZZ | M | Degaussing Coil (PR701:P0072CE) | AW |
|         | or            |   |                                 |    |
|         | RCiLG0035MEZZ |   | Degaussing Coil (PR701:P0059CE) |    |
|         | or            |   |                                 |    |
|         | RCiLG0027MEZZ |   | Degaussing Coil (PR701:P0059CE) |    |
|         | MSPRT0002MEZZ | M | Spring for CRT                  | AA |
| △       | QEARC3502MEZZ | M | Grounding Strap                 | AH |

|              | CRT        | R621   | R553 | R554 | R513 | R502   | R519 | R520 |
|--------------|------------|--------|------|------|------|--------|------|------|
| COMBI-NATION | A90AHH5006 | 2.7/3W | 82K  | 18K  | 56K  | 10K(B) | 12K  | 180K |
|              | A90AEJ1509 |        |      |      |      |        |      |      |
|              | A90AFX1513 | 2.2/3W | 100K | 22K  | 47K  | 33K(B) | 10K  | 150K |

|              | PR701          | L703                     |
|--------------|----------------|--------------------------|
| COMBI-NATION | P0072CE (3R0M) | C1LG0052ME               |
|              | P0059CE (5R0M) | C1LG0035ME or C1LG0027ME |

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

|                     |   |                               |   |
|---------------------|---|-------------------------------|---|
| PWB-A DUNTKA118WEK0 | — | MAIN Unit (32N-S400, CN32S40) | — |
| PWB-A DUNTKA118WEK1 | — | MAIN Unit (36N-S400, CN36S40) | — |
| PWB-B DUNTKA119WEK0 | — | CRT Unit (32N-S400, CN32S40)  | — |
| PWB-B DUNTKA119WEK1 | — | CRT Unit (36N-S400, CN36S40)  | — |
| PWB-F DUNTK9514WEK3 | — | CONTROL Unit                  | — |
| PWB-R DUNTK9511WEK3 | — | P-IN-P Unit                   | — |

| Ref. No.                                        | Part No. | ★ | Description | Code |
|-------------------------------------------------|----------|---|-------------|------|
| <b>PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)</b> |          |   |             |      |
| <b>PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)</b> |          |   |             |      |
| <b>MAIN UNIT</b>                                |          |   |             |      |

**TUNER**

**NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.**

|        |               |   |       |    |
|--------|---------------|---|-------|----|
| △ TU51 | VTUVTST5UF78S | M | Tuner | BD |
|        | or            |   |       |    |
|        | VTU115B8035AH |   |       |    |

**INTEGRATED CIRCUITS**

|    |        |                     |   |            |    |
|----|--------|---------------------|---|------------|----|
|    | IC101  | VHiKA78S05P-1       | J | KA78S05P   | AD |
| ▲△ | IC201  | RH-IX3253CEZZ       | J | TA1268AN   | AV |
| △  | IC361  | RH-IX1135CEZZ       | J | LA4261     | AH |
|    | IC470  | VHiM52055FP-1       | J | M52055FP   | AH |
| △  | IC501  | VHiTA8427K/-1       | J | TA8427K    | AL |
|    |        | or                  |   |            |    |
|    |        | RH-IX1224CEZZ       |   |            |    |
|    | IC671  | VHiUPC358C/-1       | J | UPC358C    | AD |
| ▲△ | IC701  | VHiSTRF66261E       | J | STRF6626   | AX |
| △  | IC702  | RH-FX0002GEZZ       | J | PS2501-1   | AD |
| △  | IC703  | VHiSE125N/-1        | M | SE125N     | AG |
|    |        | (32N-S400, CN32S40) |   |            |    |
| △  | IC703  | VHiSE135N/-1        | J | SE135N     | AG |
|    |        | (36N-S400, CN36S40) |   |            |    |
| △  | IC750  | VHiKA7809Pi-1       | R | KA7809Pi   | AE |
|    | IC751  | VHiKA7809Pi-1       | R | KA7809Pi   | AE |
|    | IC951  | VHiMM1113XF1E       | J | MM1113XFBE | AE |
|    | IC1401 | VHiTC90A45F-1       | J | TC90A45F   | AM |
|    | IC1403 | VHiKA78L05B-1       | J | KA78L05BP  | AE |
|    | IC2001 | RH-IX3366CEZZ       | J | I.C.       | AT |
|    | IC2040 | VHiKIA7045A-1       | J | KIA7045AP  | AE |
|    |        | or                  |   |            |    |
|    |        | VHiKIA7045P-1       |   |            |    |
|    | IC2101 | VHiM24C16B/-1       | J | M24C16-BN6 | AG |
|    | IC3001 | VHiCXA2074Q-1       | J | CXA2074Q   | AY |
|    | IC3201 | VHiAN5285K/-1       | J | AN5285K    | AP |

**TRANSISTORS**

You can substitute "VS2SC2462-C-1" for "VS2SD601AR/-1".

|   |       |                     |   |             |    |
|---|-------|---------------------|---|-------------|----|
|   | Q201  | VS2SC2735//1E       | J | 2SC2735     | AC |
|   | Q251  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q252  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q253  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q301  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q360  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q401  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q402  | VS2SB709AR/-1       | J | 2SB709AR    | AC |
|   | Q403  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q421  | VS2SB709AR/-1       | J | 2SB709AR    | AC |
|   | Q451  | VS2SA1266-Y-1       | J | 2SA1266 (Y) | AA |
|   | Q601  | VS2SC2482//1        | J | 2SC2482     | AD |
| △ | Q602  | VSBU2520AX/-1       | J | BU2520AX    | AK |
|   |       | (32N-S400, CN32S40) |   |             |    |
| △ | Q602  | VS2SC5150//2E       | M | 2SC5150     | AR |
|   |       | (36N-S400, CN36S40) |   |             |    |
|   | Q672  | VS2SA1266-Y-1       | J | 2SA1266 (Y) | AA |
|   | Q673  | VS2SD2045//1        | J | 2SD2045     | AL |
|   | Q751  | VS2SC3198-Y-1       | J | 2SC3198 (Y) | AA |
|   | Q901  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q902  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q903  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q904  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q921  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q922  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q923  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q924  | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1402 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1403 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1404 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1405 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1406 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1601 | VS2SD601AR/-1       | J | 2SD601AR    | AC |
|   | Q1602 | VS2SB709AR/-1       | J | 2SB709AR    | AC |
|   | Q2060 | VS2SD601AR/-1       | J | 2SD601AR    | AC |

| Ref. No. | Part No.      | ★ | Description | Code |
|----------|---------------|---|-------------|------|
| Q2201    | VS2SD601AR/-1 | J | 2SD601AR    | AC   |
| Q2211    | VS2SD601AR/-1 | J | 2SD601AR    | AC   |

**DIODES**

You can substitute "RH-DX0045GEZZ" for "VHD1SS119//1".

|    |       |                     |   |                   |    |
|----|-------|---------------------|---|-------------------|----|
|    | D51   | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D52   | RH-EX0676GEZZ       | J | Zener Diode, 32V  | AA |
|    | D53   | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D103  | VHD1SS119//1        | J | Diode             | AB |
|    | D401  | VHD1SS119//1        | J | Diode             | AB |
|    | D402  | RH-EX0723GEZZ       | J | Zener Diode, 3.3V | AB |
|    | D403  | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D404  | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D405  | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D454  | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
|    | D455  | VHD1SS119//1        | J | Diode             | AB |
|    | D481  | VHD1SS119//1        | J | Diode             | AB |
|    | D482  | VHD1SS119//1        | J | Diode             | AB |
| △  | D501  | RH-DX0302CEZZ       | J | Diode             | AC |
|    | D510  | RH-DX0441CEZZ       | J | Diode             | AC |
|    | D511  | RH-EX0654CEZZ       | J | Zener Diode, 75V  | AD |
| △  | D605  | RH-DX0255CEZZ       | J | Diode             | AC |
|    | D621  | RH-EX0631GEZZ       | J | Zener Diode, 9.1V | AA |
| △  | D622  | RH-DX0131CEZZ       | J | Diode             | AC |
| ▲△ | D651  | RH-DX0073CEZZ       | J | Diode             | AD |
| ▲△ | D652  | RH-EX0641GEZZ       | J | Zener Diode, 12V  | AA |
| ▲△ | D653  | VHD1SS119//1        | J | Diode             | AB |
|    |       | (32N-S400, CN32S40) |   |                   |    |
| ▲△ | D654  | VHD1SS119//1        | J | Diode             | AB |
|    |       | (32N-S400, CN32S40) |   |                   |    |
|    | D671  | RH-EX0664GEZZ       | J | Zener Diode, 24V  | AA |
|    | D672  | VHD1SS119//1        | J | Diode             | AB |
| △  | D673  | RH-DX0229CEZZ       | J | Diode             | AF |
|    | D674  | VHD1SS119//1        | J | Diode             | AB |
|    | D705  | VHD1SS82///1A       | J | Diode             | AC |
|    | D706  | RH-DX0066GEZZ       | J | Diode             | AB |
|    | D707  | VHD1SS82///1A       | J | Diode             | AC |
|    | D708  | RH-DX0066GEZZ       | J | Diode             | AB |
| △  | D709  | RH-DX0229CEZZ       | J | Diode             | AF |
| △  | D710  | RH-EX0673GEZZ       | J | Zener Diode, 30V  | AB |
| △  | D712  | RH-DX0407CEZZ       | J | Diode             | AD |
|    |       | or                  |   |                   |    |
|    |       | RH-DX0468CEZZ       |   |                   |    |
| △  | D713  | RH-DX0259CEZZ       | J | Diode             | AH |
|    |       | or                  |   |                   |    |
|    |       | RH-DX0477CEZZ       |   |                   |    |
|    | D715  | RH-EX0610GEZZ       | J | Zener Diode, 4.7V | AA |
|    | D716  | VHD1SS119//1        | J | Diode             | AB |
|    | D717  | RH-EX0650GEZZ       | J | Zener Diode, 16V  | AB |
| △  | D725  | RH-DX0407CEZZ       | J | Diode             | AD |
|    |       | or                  |   |                   |    |
|    |       | RH-DX0468CEZZ       |   |                   |    |
| △  | D751  | RH-DX0441CEZZ       | J | Diode             | AC |
| △  | D752  | RH-DX0441CEZZ       | J | Diode             | AC |
| △  | D753  | RH-DX0441CEZZ       | J | Diode             | AC |
| △  | D754  | RH-DX0441CEZZ       | J | Diode             | AC |
|    | D755  | VHD1SS119//1        | J | Diode             | AB |
|    | D756  | RH-DX0441CEZZ       | J | Diode             | AC |
|    | D2011 | RH-EX0611GEZZ       | J | Zener Diode, 5.1V | AA |
| △  | VA701 | RH-VX0048CEZZ       | J | Varistor          | AE |

**PACKAGED CIRCUITS**

|   |       |               |   |                                 |    |
|---|-------|---------------|---|---------------------------------|----|
| △ | PR701 | RMPTP0072CEZZ | J | Packaged Circuit (L703:G0051ME) | AH |
|   |       | or            |   |                                 |    |
|   |       | RMPTP0059CEZZ |   | (L703:G0028ME or G0034ME)       |    |
|   |       |               |   | (32N-S400, CN32S40)             |    |
| △ | PR701 | RMPTP0072CEZZ | J | Packaged Circuit (L703:G0052ME) | AH |
|   |       | or            |   |                                 |    |
|   |       | RMPTP0059CEZZ |   | (L703:G0027ME or G0035ME)       |    |
|   |       |               |   | (36N-S400, CN36S40)             |    |
|   | X801  | RCRSB0001PEZZ | R | Crystal                         | AL |
|   |       | or            |   |                                 |    |
|   |       | RCRSB0205CEZZ |   |                                 |    |

**FILTERS**

|       |               |   |                |    |
|-------|---------------|---|----------------|----|
| CF301 | RFILC0267CEZZ | J | Ceramic Filter | AD |
|-------|---------------|---|----------------|----|

| Ref. No.                                        | Part No.      | ★ | Description      | Code |
|-------------------------------------------------|---------------|---|------------------|------|
| <b>PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)</b> |               |   |                  |      |
| <b>PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)</b> |               |   |                  |      |
| <b>MAIN UNIT (Continued)</b>                    |               |   |                  |      |
| CF302                                           | RFILC0029TAZZ | J | Ceramic Filter   | AD   |
| CF401                                           | RFILC0013CEZZ | J | Ceramic Filter   | AE   |
| CF631                                           | RFILA0034CEZZ | J | Ceramic Filter   | AD   |
| CF2040                                          | RFILC0121GEZZ | J | Ceramic Filter   | AD   |
| SF201                                           | RFILC0405CEZZ | J | SAW Filter       | AH   |
| <b>COILS</b>                                    |               |   |                  |      |
| L201                                            | VP-XF1R2K0000 | J | Peaking 1.2μH    | AB   |
| L202                                            | RCiLi0588CEZZ | J | VCO Coil         | AF   |
| L251                                            | VP-XF390K0000 | J | Peaking 39μH     | AB   |
| L301                                            | VP-XF8R2K0000 | J | Peaking 8.2μH    | AB   |
| L302                                            | RCiLi0613CEZZ | J | IF Coil          | AE   |
|                                                 | or            |   |                  |      |
|                                                 | RCiLi0605CEZZ |   |                  |      |
| L401                                            | VP-XF6R8K0000 | J | Peaking 6.8μH    | AB   |
| L402                                            | VP-XF3R3K0000 | J | Peaking 3.3μH    | AB   |
| L403                                            | VP-XF8R2K0000 | J | Peaking 8.2μH    | AB   |
| L404                                            | VP-XF8R2K0000 | J | Peaking 8.2μH    | AB   |
| L631                                            | VP-XF150K0000 | J | Peaking 15μH     | AB   |
| L671                                            | RCiLZ1005CEZZ | J | Coil             | AH   |
|                                                 | or            |   |                  |      |
|                                                 | RCiLZ0868CEZZ |   |                  |      |
| L672                                            | RCiLZ1027CEZZ | J | Coil             | AE   |
|                                                 | or            |   |                  |      |
|                                                 | RCiLZ0798CEZZ |   |                  |      |
| △ L701                                          | RCiLF0313CEZZ | J | Coil             | AH   |
|                                                 | or            |   |                  |      |
|                                                 | RCiLF0273CEZZ |   |                  |      |
| △ L702                                          | RCiLF0025PEZZ | R | Coil             | AK   |
|                                                 | or            |   |                  |      |
|                                                 | RCiLF0273PEZZ |   |                  |      |
| L705                                            | RCiLP0179CEZZ | J | Coil             | AD   |
| L729                                            | RCiLP0179CEZZ | J | Coil             | AD   |
| L1401                                           | VP-XF100K0000 | J | Peaking 10μH     | AB   |
| L1402                                           | VP-XF100K0000 | J | Peaking 10μH     | AB   |
| L1403                                           | VP-XF150K0000 | J | Peaking 15μH     | AB   |
| L1405                                           | VP-XF330K0000 | J | Peaking 33μH     | AB   |
| L2040                                           | RCiLB0131CEZZ | J | Oscillation Coil | AE   |

**TRANSFORMERS****32N-S400, CN32S40**

|                  |         |      |
|------------------|---------|------|
|                  | T602    | R654 |
| COMB1-<br>NATION | F0035ME | 39K  |
|                  | F0039ME | 33K  |

**36N-S400, CN36S40**

|                  |         |      |      |      |
|------------------|---------|------|------|------|
|                  | T602    | R652 | R653 | R654 |
| COMB1-<br>NATION | F0036ME | 12K  | 10K  | 68K  |
|                  | F0040ME | 39K  | 33K  | 180K |

|        |               |   |                     |    |
|--------|---------------|---|---------------------|----|
| △ T601 | RTRNZ0057PEZZ | R | Transformer         | AK |
| ▲ T602 | RTRNF0035MEZZ | M | H-Volt Transformer  | BA |
|        | or            |   | (32N-S400, CN32S40) |    |
|        | RTRNF0039MEZZ |   |                     |    |
| ▲ T602 | RTRNF0040MEZZ | M | H-Volt Transformer  | AZ |
|        | or            |   | (36N-S400, CN36S40) |    |
|        | RTRNF0036MEZZ |   |                     |    |
| △ T701 | RTRNP0543CEZZ | J | Power Transformer   | AM |
| △ T702 | RTRNZ0018MEZZ | M | Transformer         | AN |

**CONTROLS**

|      |               |   |                     |    |
|------|---------------|---|---------------------|----|
| R502 | RVR-M4334CEZZ | J | 10k (B) V-Lin.      | AC |
|      | or            |   |                     |    |
|      | RVR-M4337CEZZ |   | 33k (B) V-Lin.      |    |
|      |               |   | (36N-S400, CN36S40) |    |
| R676 | RVR-M4334CEZZ | J | 10k (B) H-Lin.      | AC |
| R678 | RVR-M4336CEZZ | J | 22k (B) H-Size      | AC |

**CAPACITORS**

[EL... Electrolytic, M-Poly... Metalized Polypro Film]

|     |               |   |     |     |     |    |
|-----|---------------|---|-----|-----|-----|----|
| C51 | VCEA0A1CW476M | J | 47  | 16V | EL. | AB |
| C53 | VCEA0A1HW105M | J | 1.0 | 50V | EL. | AB |
| C54 | VCEA0A1HW475M | J | 4.7 | 50V | EL. | AB |

| Ref. No. | Part No.       | ★ | Description | Code        |
|----------|----------------|---|-------------|-------------|
| C55      | VCEA0A1CW108M  | J | 1000 16V    | EL. AD      |
| C103     | VCEA0A1CW228M  | J | 2200 16V    | EL. AD      |
| C201     | VCKYCY1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C202     | VCKYCY1HF103Z  | J | 0.01 50V    | Ceramic AA  |
| C203     | VCKYCY1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C204     | VCKYCY1HF103Z  | J | 0.01 50V    | Ceramic AA  |
| C205     | VCEA0A1HW474M  | J | 0.47 50V    | EL. AB      |
| C206     | VCEA0A1CW337M  | J | 330 16V     | EL. AC      |
| C207     | VCKYCY1HF103Z  | J | 0.01 50V    | Ceramic AA  |
| C208     | VCEA0A1HW474M  | J | 0.47 50V    | EL. AB      |
| C209     | VCKYCY1HB222K  | J | 2200p 50V   | Ceramic AA  |
| C210     | VCKYCY1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C251     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C252     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C253     | VCCCCY1HH470J  | J | 47p 50V     | Ceramic AA  |
| C301     | VCCCCY1HH330J  | J | 33p 50V     | Ceramic AA  |
| C302     | VCCCCY1HH151J  | J | 150p 50V    | Ceramic AA  |
| C303     | VCCCCY1HH390J  | J | 39p 50V     | Ceramic AA  |
| C307     | VCCCCY1HH1R5C  | J | 1.5p 50V    | Ceramic AD  |
| C308     | VCKYCY1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C309     | VCEA0A1CW337M  | J | 330 16V     | EL. AC      |
| C312     | VCEA0A1CW476M  | J | 47 16V      | EL. AB      |
| C360     | VCEA0A1HW225M  | J | 2.2 50V     | EL. AB      |
| C361     | VCEA0A1HW225M  | J | 2.2 50V     | EL. AB      |
| C364     | VCEA0A1EW107M  | J | 100 25V     | EL. AC      |
| C365     | VCEA0A0JW107M  | J | 100 6.3V    | EL. AB      |
| C368     | VCEA0A1CW477M  | J | 470 16V     | EL. AC      |
| C369     | VCEA0A1CW477M  | J | 470 16V     | EL. AC      |
| C370     | VCEA0A0JW107M  | J | 100 6.3V    | EL. AB      |
| C371     | VCQYTA1HM104K  | J | 0.1 50V     | Mylar AC    |
| C372     | VCQYTA1HM104K  | J | 0.1 50V     | Mylar AC    |
| C380     | VCQYTA1HM103K  | J | 0.01 50V    | Mylar AB    |
| C381     | VCQYTA1HM103K  | J | 0.01 50V    | Mylar AB    |
| C401     | VCKYCY1HB331K  | J | 330p 50V    | Ceramic AA  |
| C402     | VCCCCY1HH101J  | J | 100p 50V    | Ceramic AA  |
| C403     | VCKYCY1CB104K  | J | 0.1 16V     | Ceramic AB  |
| C404     | VCEA0A1CW107M  | J | 100 16V     | EL. AC      |
| C405     | VCEA0A1CW106M  | J | 10 16V      | EL. AB      |
| C406     | VCEA0A1HW225M  | J | 2.2 50V     | EL. AB      |
| C408     | VCEA0A1HW106M  | J | 10 50V      | EL. AB      |
| C409     | VCEA0A1HW335M  | J | 3.3 50V     | EL. AB      |
| C410     | VCKYCY1CB104K  | J | 0.1 16V     | Ceramic AB  |
| C411     | VCEA0A1CW337M  | J | 330 16V     | EL. AC      |
| C412     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C413     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C414     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C422     | VCEA0A1CW476M  | J | 47 16V      | EL. AB      |
| C451     | VCQYTA1HM104K  | J | 0.1 50V     | Mylar AC    |
| C452     | VCEA0A1HW475M  | J | 4.7 50V     | EL. AB      |
| C453     | VCEA0A1CW226M  | J | 22 16V      | EL. AB      |
| C471     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C472     | VCEA0A1HW106M  | J | 10 50V      | EL. AB      |
| C473     | VCEA0A1CW106M  | J | 10 16V      | EL. AB      |
| C474     | VCEA0A1CW106M  | J | 10 16V      | EL. AB      |
| C476     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C477     | VCE9GA1CW106M  | J | 10 16V      | EL.(N.P) AB |
| C478     | VCKYCY1HB103K  | J | 0.01 50V    | Ceramic AA  |
| C501     | VCKYPA2HB102K  | J | 1000p 500V  | Ceramic AA  |
| C502     | VCEA0A1VW337M  | J | 330 35V     | EL. AD      |
| C509     | VCCSPA1HL101J  | J | 100p 50V    | Ceramic AA  |
| C510     | VCFYS1A1JB564J | J | 0.56 63V    | Mylar AC    |
| C511     | VCKYPA2HB391K  | J | 390p 500V   | Ceramic AA  |
| C512     | VCQYTA1HM683J  | J | 0.068 50V   | Mylar AB    |
| C513     | VCQYTA1HM103K  | J | 0.01 50V    | Mylar AB    |
| C514     | VCEA0A1VW107M  | J | 100 35V     | EL. AC      |
| C515     | VCEACA1HC225J  | J | 2.2 50V     | EL. AC      |
| C516     | VCEACA1HC105J  | J | 1.0 50V     | EL. AB      |
| C517     | VCEA0A1VW108M  | J | 1000 35V    | EL. AD      |
| C518     | VCFYS1A1JB473J | J | 0.047 63V   | Mylar AB    |
| C519     | VCEA0A1HW105M  | J | 1.0 50V     | EL. AB      |
| C551     | VCSATA1CE225K  | J | 2.2 16V     | Tantalum AB |
| C552     | VCEA0A1HW225M  | J | 2.2 50V     | EL. AB      |
| C553     | VCKYCY1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C605     | VCKYPA1HB102K  | J | 1000p 50V   | Ceramic AA  |
| C606     | VCKYPA2HB561K  | J | 560p 500V   | Ceramic AA  |

| Ref. No.                                        | Part No.      | ★ | Description           | Code |
|-------------------------------------------------|---------------|---|-----------------------|------|
| <b>PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)</b> |               |   |                       |      |
| <b>PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)</b> |               |   |                       |      |
| <b>MAIN UNIT (Continued)</b>                    |               |   |                       |      |
| C607                                            | VCKYPA1HB472K | J | 4700p 50V Ceramic     | AA   |
| C608                                            | RC-KZ0033CEZZ | J | 150p 2kV Ceramic      | AB   |
| C608                                            | VCKYPH3DB271K | J | 270p 2kV Ceramic      | AC   |
| ▲▲ C609                                         | VCFPVC3CA912H | J | 9100p 1.6kV M-Poly.   | AE   |
| ▲▲ C609                                         | VCFPVC3CA822H | J | 8200p 1.6kV M-Poly.   | AE   |
| ▲▲ C610                                         | VCFPVC3CA912H | J | 9100p 1.6kV M-Poly.   | AE   |
|                                                 | or            |   |                       |      |
|                                                 | VCFPVC3CA103H |   | 0.01 1.6kV M-Poly     |      |
|                                                 |               |   | (32N-S400, CN32S40)   |      |
| C615                                            | VCKYPA2HB272K | J | 2700p 500V Ceramic    | AA   |
| C622                                            | VCKYPA2HB102K | J | 1000p 500V Ceramic    | AA   |
| C623                                            | VCEA0A2CW336M | J | 33 160V EL.           | AE   |
| C631                                            | VCEA0A1HW335M | J | 3.3 50V EL.           | AB   |
| C632                                            | VCQYTA1HM103K | J | 0.01 50V Mylar        | AB   |
| C633                                            | VCEA0A1CW107M | J | 100 16V EL.           | AC   |
| C652                                            | VCEA0A1VW476M | J | 47 35V EL.            | AB   |
| ▲ C653                                          | VCEA0A1HW106M | J | 10 50V EL.            | AB   |
| C671                                            | VCEA0A1EW336M | J | 33 25V EL.            | AB   |
| C672                                            | VCEACA1HC335J | J | 3.3 50V EL.           | AC   |
| C673                                            | VCEA0A1VW337M | J | 330 35V EL.           | AD   |
| C674                                            | VCKYCY1HF103Z | J | 0.01 50V Ceramic      | AA   |
| C675                                            | VCEA0A1VW106M | J | 10 35V EL.            | AB   |
| C676                                            | VCE9GA1EW336M | J | 33 25V EL.(N.P)       | AB   |
| C677                                            | RC-FZ0374CEZZ | J | 4.7 50V Mylar         | AF   |
|                                                 | or            |   |                       |      |
|                                                 | RC-FZ0184CEZZ |   |                       |      |
| ▲▲ C678                                         | VCQPPC2GB473J | J | 0.047 400V M-Poly.    | AB   |
|                                                 | or            |   |                       |      |
|                                                 | VCQPPC2GB393J |   | 0.039 400V M-Poly     |      |
|                                                 |               |   | (32N-S400, CN32S40)   |      |
| ▲▲ C678                                         | VCQPPC2JB473J | J | 0.047 630V M-Poly.    | AC   |
|                                                 |               |   | (36N-S400, CN36S40)   |      |
| C680                                            | VCFPVC2DB684J | M | 0.68 200V M-Poly.     | AC   |
| C682                                            | VCKYPA2HB102K | J | 1000p 500V Ceramic    | AA   |
| ▲ C701                                          | RC-FZ017SCEZZ | J | 0.22 AC125V Plastic   | AD   |
|                                                 | or            |   |                       |      |
|                                                 | RC-FZ0025PEZZ |   |                       |      |
|                                                 | or            |   |                       |      |
|                                                 | RC-FZ012SGEZZ |   |                       |      |
| C702                                            | RC-KZ0029CEZZ | J | 0.01 500V Ceramic     | AC   |
| C703                                            | RC-KZ0029CEZZ | J | 0.01 500V Ceramic     | AC   |
| ▲ C705                                          | RC-EZ0720CEZZ | J | 680 200V EL.          | AN   |
|                                                 | or            |   | (32N-S400, CN32S40)   |      |
|                                                 | RC-EZ0801CEZZ |   |                       |      |
| ▲ C705                                          | RC-EZ0722CEZZ | M | 820 200V EL.          | AL   |
|                                                 | or            |   | (36N-S400, CN36S40)   |      |
|                                                 | RC-EZ0802CEZZ |   |                       |      |
| ▲ C706                                          | RC-KZ0092GEZZ | J | 0.0033 AC250V Ceramic | AC   |
|                                                 | or            |   |                       |      |
|                                                 | RC-KZ0311CEZZ |   |                       |      |
| C707                                            | VCFPVC3CA222H | J | 2200p 1.6kV M-Poly.   | AE   |
| C708                                            | VCCSPA1HL471J | J | 470p 50V Ceramic      | AA   |
| C709                                            | VCEA0A1VW107M | J | 100 35V EL.           | AC   |
| C710                                            | VCQYTA1HM821J | M | 820p 50V Mylar        | AA   |
| C717                                            | VCKYPA2HB472K | J | 4700p 500V Ceramic    | AB   |
| C722                                            | VCQYTA1HM104K | J | 0.1 50V Mylar         | AC   |
| ▲ C723                                          | RC-EZ0724CEZZ | J | 100 160V EL.          | AG   |
| ▲ C725                                          | RC-EZ0810CEZZ | M | 330 160V EL.          | AG   |
|                                                 | or            |   |                       |      |
|                                                 | RC-EZ1171CEZZ |   |                       |      |
| C726                                            | RC-KZ0338CEZZ | J | 560p 2kV Ceramic      | AD   |
| C727                                            | RC-KZ0338CEZZ | J | 560p 2kV Ceramic      | AD   |
| C729                                            | VCEA0A1CW106M | J | 10 16V EL.            | AB   |
| C730                                            | VCEA4A1EN108M | J | 1000 25V EL.          | AD   |
| C731                                            | RC-EZ0385CEZZ | J | 1000 16V EL.          | AE   |
| C732                                            | VCKYPA2HB102K | J | 1000p 500V Ceramic    | AA   |
| C741                                            | VCKYPA2HB102K | J | 1000p 500V Ceramic    | AA   |
| C742                                            | VCKYPA2HB102K | J | 1000p 500V Ceramic    | AA   |

| Ref. No. | Part No.       | ★ | Description       | Code |
|----------|----------------|---|-------------------|------|
| C751     | VCKYPA1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C753     | VCEA0A1CW107M  | J | 100 16V EL.       | AC   |
| C755     | VCEA0A1CW476M  | J | 47 16V EL.        | AB   |
| ▲ C772   | VCEA0A1VW477M  | J | 470 35V EL.       | AB   |
| C773     | VCCSPA1HL101J  | J | 100p 50V Ceramic  | AA   |
| C801     | VCQYTA1HM223K  | J | 0.022 50V Mylar   | AB   |
| C802     | VCEA0A1HW474M  | J | 0.47 50V EL.      | AB   |
| C803     | VCCCCY1HH110J  | J | 11p 50V Ceramic   | AA   |
| C804     | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C805     | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C806     | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C807     | VCCCCY1HH221J  | J | 220p 50V Ceramic  | AA   |
| C901     | VCEA0A1HW335M  | J | 3.3 50V EL.       | AB   |
| C903     | VCEA0A1HW335M  | J | 3.3 50V EL.       | AB   |
| C922     | VCEA0A1HW335M  | J | 3.3 50V EL.       | AB   |
| C923     | VCEA0A1HW335M  | J | 3.3 50V EL.       | AB   |
| C925     | VCEA0A1CW476M  | J | 47 16V EL.        | AB   |
| C926     | VCEA0A1CW476M  | J | 47 16V EL.        | AB   |
| C927     | VCKYCY1HB103K  | J | 0.01 50V Ceramic  | AA   |
| C928     | VCKYCY1HB103K  | J | 0.01 50V Ceramic  | AA   |
| C929     | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C930     | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C931     | VCKYCY1EB183K  | J | 0.018 25V Ceramic | AA   |
| C932     | VCKYCY1EB183K  | J | 0.018 25V Ceramic | AA   |
| C951     | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C952     | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C954     | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C955     | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C956     | VCEA0A1CW337M  | J | 330 16V EL.       | AC   |
| C1401    | VCCCCY1HH220J  | J | 22p 50V Ceramic   | AA   |
| C1402    | VCIFYFA1HA474J | J | 0.47 50V Mylar    | AC   |
| C1403    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1404    | VCKYPA1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1405    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1407    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1408    | VCEA0A1HW106M  | J | 10 50V EL.        | AB   |
| C1409    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1410    | VCCCCY1HH181J  | J | 180p 50V Ceramic  | AA   |
| C1411    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1412    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1413    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1415    | VCEA0A1CW476M  | J | 47 16V EL.        | AB   |
| C1416    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C1417    | VCCCCY1HH390J  | J | 39p 50V Ceramic   | AA   |
| C1419    | VCEA0A1HW106M  | J | 10 50V EL.        | AB   |
| C1420    | VCKYCY1HB103K  | J | 0.01 50V Ceramic  | AA   |
| C1421    | VCCCCY1HH120J  | J | 12p 50V Ceramic   | AA   |
| C1423    | VCCCCY1HH120J  | J | 12p 50V Ceramic   | AA   |
| C1424    | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C1425    | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C1428    | VCCCCY1HH270J  | J | 27p 50V Ceramic   | AA   |
| C1601    | VCEA0A1CW106M  | J | 10 16V EL.        | AB   |
| C1602    | VCCCCY1HH470J  | J | 47p 50V Ceramic   | AA   |
| C1603    | VCCCCY1HH101J  | J | 100p 50V Ceramic  | AA   |
| C2001    | VCCCCY1HH101J  | J | 100p 50V Ceramic  | AA   |
| C2002    | VCCCCY1HH101J  | J | 100p 50V Ceramic  | AA   |
| C2040    | VCEA0A1AW107M  | J | 100 10V EL.       | AB   |
| C2041    | VCEA0A1HW105M  | J | 1.0 50V EL.       | AB   |
| C2060    | VCKYCY1CB104K  | J | 0.1 16V Ceramic   | AB   |
| C2061    | VCCCCY1HH101J  | J | 100p 50V Ceramic  | AA   |
| C2062    | VCEA0A1AW107M  | J | 100 10V EL.       | AB   |
| C2063    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C2201    | VCKYCY1HB681K  | J | 680p 50V Ceramic  | AA   |
| C2202    | VCCCCY1HH390J  | J | 39p 50V Ceramic   | AA   |
| C3001    | VCE9GA1HW475M  | J | 4.7 50V EL.(N.P)  | AB   |
| C3002    | VCKYCY1HB562K  | J | 5600p 50V Ceramic | AA   |
| C3003    | VCQYTA1HM123K  | J | 0.012 50V Mylar   | AA   |
| C3004    | VCEA0A1HW105M  | J | 1.0 50V EL.       | AB   |
| C3005    | VCEA0A1HW475M  | J | 4.7 50V EL.       | AB   |
| C3006    | VCEA0A1HW106M  | J | 10 50V EL.        | AB   |
| C3007    | VCEA0A1HW475M  | J | 4.7 50V EL.       | AB   |
| C3008    | VCKYCY1HF103Z  | J | 0.01 50V Ceramic  | AA   |
| C3009    | VCEA0A1CW227M  | J | 220 16V EL.       | AC   |
| C3010    | VCE9GA1HW475M  | J | 4.7 50V EL.(N.P)  | AB   |
| C3011    | VCEA0A1HW475M  | J | 4.7 50V EL.       | AB   |
| C3012    | VCE9GA1HW475M  | J | 4.7 50V EL.(N.P)  | AB   |

| Ref. No.                                       | Part No.      | ★ | Description       | Code | Ref. No. | Part No.      | ★ | Description         | Code |
|------------------------------------------------|---------------|---|-------------------|------|----------|---------------|---|---------------------|------|
| PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)       |               |   |                   |      | R304     | VRS-CY1JF333J | J | 33k 1/16W M-Ox.     | AA   |
| PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)       |               |   |                   |      | R305     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.    | AA   |
| MAIN UNIT (Continued)                          |               |   |                   |      | R306     | VRS-CY1JF152J | J | 1.5k 1/16W M-Ox.    | AA   |
| C3013                                          | VCKYCY1HB272K | J | 2700p 50V Ceramic | AA   | R360     | VRD-RA2BE331J | J | 330 1/8W Carbon     | AA   |
| C3014                                          | VCQYTA1HM473K | J | 0.047 50V Mylar   | AB   | R361     | VRD-RA2BE562J | J | 5.6k 1/8W Carbon    | AA   |
| C3015                                          | VCSATA1CE335K | J | 3.3 16V Tantalum  | AC   | R362     | VRD-RA2BE562J | J | 5.6k 1/8W Carbon    | AA   |
| C3016                                          | VCE9GA1HW475M | J | 4.7 50V EL.(N.P)  | AB   | R363     | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox.    | AA   |
| C3017                                          | VCSATA1CE106K | J | 10 16V Tantalum   | AD   | R364     | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox.    | AA   |
| C3018                                          | VCEA0A1HW105M | J | 1.0 50V EL.       | AB   | R365     | VRS-CY1JF221J | J | 220 1/16W M-Ox.     | AA   |
| C3021                                          | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R370     | VRS-CY1JF221J | J | 220 1/16W M-Ox.     | AA   |
| C3022                                          | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R371     | VRD-RA2EE3R3J | J | 3.3 1/4W Carbon     | AA   |
| C3031                                          | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R372     | VRD-RA2EE3R3J | J | 3.3 1/4W Carbon     | AA   |
| C3032                                          | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R401     | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox.    | AA   |
| C3201                                          | VCE9GA1HW475M | J | 4.7 50V EL.(N.P)  | AB   | R402     | VRS-CY1JF331J | J | 330 1/16W M-Ox.     | AA   |
| C3202                                          | VCE9GA1HW475M | J | 4.7 50V EL.(N.P)  | AB   | R403     | VRS-CY1JF391J | J | 390 1/16W M-Ox.     | AA   |
| C3203                                          | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R404     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.    | AA   |
| C3204                                          | VCEA0A1CW106M | J | 10 16V EL.        | AB   | R405     | VRS-CY1JF470J | J | 47 1/16W M-Ox.      | AA   |
| C3205                                          | VCEA0A1CW106M | J | 10 16V EL.        | AB   | R406     | VRS-CY1JF680J | J | 68 1/16W M-Ox.      | AA   |
| C3206                                          | VCKYCY1HB103K | J | 0.01 50V Ceramic  | AA   | R407     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.    | AA   |
| C3207                                          | VCE9GA1HW475M | J | 4.7 50V EL.(N.P)  | AB   | R408     | VRS-CY1JF471J | J | 470 1/16W M-Ox.     | AA   |
| C3208                                          | VCE9GA1HW475M | J | 4.7 50V EL.(N.P)  | AB   | R409     | VRD-RA2BE562J | J | 5.6k 1/8W Carbon    | AA   |
| RESISTORS                                      |               |   |                   |      | R410     | VRD-RA2BE823J | J | 82k 1/8W Carbon     | AA   |
| [M-Ox. ... Metal Oxide, M-Film ... Metal Film] |               |   |                   |      | R411     | VRD-RA2BE682J | J | 6.8k 1/8W Carbon    | AA   |
| RJ2                                            | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R412     | VRD-RA2BE561J | J | 560 1/8W Carbon     | AA   |
| RJ3                                            | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R413     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| RJ19                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R414     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| RJ20                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R415     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| RJ21                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R420     | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox.    | AA   |
| RJ22                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R421     | VRS-CY1JF152J | J | 1.5k 1/16W M-Ox.    | AA   |
| RJ23                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R424     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.    | AA   |
| RJ24                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R426     | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.    | AA   |
| RJ25                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R427     | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.    | AA   |
| RJ27                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R428     | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.    | AA   |
| RJ28                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R431     | VRS-CY1JF330J | J | 33 1/16W M-Ox.      | AA   |
| RJ29                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R432     | VRS-CY1JF330J | J | 33 1/16W M-Ox.      | AA   |
| RJ30                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R433     | VRS-CY1JF330J | J | 33 1/16W M-Ox.      | AA   |
| RJ31                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R434     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| RJ32                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | △ R451   | VRS-RG3AB103J | J | 10k 1W M-Ox.        | AB   |
| RJ33                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R452     | VRD-RM2HD683J | J | 68k 1/2W Carbon     | AA   |
| RJ35                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R453     | VRD-RA2EE682J | J | 6.8k 1/4W Carbon    | AA   |
| RJ36                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   |          |               |   | (32N-S400, CN32S40) |      |
| RJ37                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R454     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.    | AA   |
| RJ38                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R456     | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox.    | AA   |
| RJ39                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R458     | VRS-CY1JF152J | J | 1.5k 1/16W M-Ox.    | AA   |
| RJ42                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R471     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| RJ43                                           | VRS-CY1JF000J | J | 0 1/16W M-Ox.     | AA   | R472     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| R51                                            | VRS-RG3AB151J | M | 150 1W M-Ox.      | AA   | R473     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon    | AA   |
| R53                                            | VRS-RG3DB470J | M | 47 2W M-Ox.       | AA   | R474     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| R54                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.   | AA   | R475     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon    | AA   |
| R55                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.   | AA   | R481     | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox.    | AA   |
| R56                                            | VRS-CY1JF823J | J | 82k 1/16W M-Ox.   | AA   | R482     | VRS-CY1JF103J | J | 10k 1/16W M-Ox.     | AA   |
| R57                                            | VRS-CY1JF392J | J | 3.9k 1/16W M-Ox.  | AA   | △ R501   | VRN-RL3LB2R2J | M | 2.2 3.0W M-Film     | AB   |
| R201                                           | VRS-CY1JF151J | J | 150 1/16W M-Ox.   | AA   | R506     | VRD-RA2BE223J | J | 22k 1/8W Carbon     | AA   |
| R202                                           | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox.  | AA   | R510     | VRD-RA2BE471J | J | 470 1/8W Carbon     | AA   |
| R203                                           | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox.  | AA   | R511     | VRD-RA2BE393J | J | 39k 1/8W Carbon     | AA   |
| R204                                           | VRS-CY1JF270J | J | 27 1/16W M-Ox.    | AA   |          |               |   | (32N-S400, CN32S40) |      |
| R205                                           | VRS-CY1JF331J | J | 330 1/16W M-Ox.   | AA   | R511     | VRD-RA2BE473J | J | 47k 1/8W Carbon     | AA   |
| R206                                           | VRD-RA2BE121J | J | 120 1/8W Carbon   | AA   |          |               |   | (36N-S400, CN36S40) |      |
| R207                                           | VRD-RA2BE4R7J | J | 4.7 1/8W Carbon   | AA   | R512     | VRD-RA2BE683J | J | 68k 1/8W Carbon     | AA   |
| R208                                           | VRD-RA2BE331J | J | 330 1/8W Carbon   | AA   | R513     | VRS-CY1JF273J | J | 27k 1/16W M-Ox.     | AA   |
| R209                                           | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.  | AA   |          |               |   | (32N-S400, CN32S40) |      |
| R251                                           | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox.  | AA   | R513     | VRS-CY1JF563J | J | 56k 1/16W M-Ox.     | AA   |
| R252                                           | VRS-CY1JF562J | J | 5.6k 1/16W M-Ox.  | AA   |          |               |   | (36N-S400, CN36S40) |      |
| R253                                           | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox.  | AA   |          |               |   | or                  |      |
| R254                                           | VRS-CY1JF223J | J | 22k 1/16W M-Ox.   | AA   |          |               |   | VRS-CY1JF473J       |      |
| R255                                           | VRS-CY1JF563J | J | 56k 1/16W M-Ox.   | AA   | R514     | VRS-CY1JF101J | J | 100 1/16W M-Ox.     | AA   |
| R256                                           | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.  | AA   | R519     | VRS-CY1JF123J | J | 12k 1/16W M-Ox.     | AA   |
| R257                                           | VRS-CY1JF470J | J | 47 1/16W M-Ox.    | AA   |          |               |   | or                  |      |
| R258                                           | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.  | AA   |          |               |   | VRS-CY1JF103J       |      |
| R259                                           | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.  | AA   |          |               |   | (36N-S400, CN36S40) |      |
| R301                                           | VRD-RA2BE222J | J | 2.2k 1/8W Carbon  | AA   | R520     | VRS-CY1JF184J | J | 180k 1/16W M-Ox.    | AA   |
| R302                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.  | AA   |          |               |   | or                  |      |
| R303                                           | VRS-CY1JF103J | J | 10k 1/16W M-Ox.   | AA   |          |               |   | VRS-CY1JF154J       |      |
|                                                |               |   |                   |      |          |               |   | (36N-S400, CN36S40) |      |
|                                                |               |   |                   |      | R521     | VRD-RM2HD152J | J | 1.5k 1/2W Carbon    | AA   |
|                                                |               |   |                   |      | R522     | VRS-RG3AB102J | M | 1.0k 1W M-Ox.       | AA   |

| Ref. No.                                        | Part No.      | ★ | Description                             | Code |
|-------------------------------------------------|---------------|---|-----------------------------------------|------|
| <b>PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)</b> |               |   |                                         |      |
| <b>PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)</b> |               |   |                                         |      |
| <b>MAIN UNIT (Continued)</b>                    |               |   |                                         |      |
| R523                                            | VRN-RL3AB1R2J | M | 1.2 1W M-Film<br>(32N-S400, CN32S40)    | AA   |
| R523                                            | VRN-RL3AB1R0J | M | 1.0 1W M-Film<br>(36N-S400, CN36S40)    | AA   |
| R524                                            | VRS-RG3AB391J | M | 390 1W M-Ox.                            | AA   |
| R525                                            | VRS-CY1JF563J | J | 56k 1/16W M-Ox.                         | AA   |
| R551                                            | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.                        | AA   |
| R552                                            | VRD-RA2BE102J | J | 1.0k 1/8W Carbon                        | AA   |
| R553                                            | VRS-CY1JF823J | J | 82k 1/16W M-Ox.                         | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRS-CY1JF103J |   | 100k 1/16W M-Ox.<br>(36N-S400, CN36S40) |      |
| R554                                            | VRS-CY1JF183J | J | 18k 1/16W M-Ox.                         | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRS-CY1JF223J |   | 22k 1/16W M-Ox.<br>(36N-S400, CN36S40)  |      |
| △ R604                                          | VRS-RG3LB222J | M | 2.2k 3.0W M-Ox.<br>(32N-S400, CN32S40)  | AB   |
| △ R604                                          | VRS-RG3LB332J | M | 3.3k 3.0W M-Ox.<br>(36N-S400, CN36S40)  | AB   |
| R605                                            | VRD-RM2HD331J | J | 330 1/2W Carbon                         | AA   |
| R606                                            | VRD-RM2HD271J | J | 270 1/2W Carbon                         | AA   |
| △ R607                                          | VRS-RG3LB222J | M | 2.2k 3W M-Ox.<br>(32N-S400, CN32S40)    | AB   |
| △ R607                                          | VRS-RG3LB332J | M | 3.3k 3.0W M-Ox.<br>(36N-S400, CN36S40)  | AB   |
| R609                                            | VRS-RG3AB562J | M | 5.6k 1W M-Ox.                           | AA   |
| R610                                            | VRD-RM2HD220J | J | 22 1/2W Carbon                          | AA   |
| △ R611                                          | VRW-KQ41C3R3K | J | 3.3 15W Cement                          | AG   |
| △ R621                                          | VRN-VV3LB1R2J | J | 1.2 3.0W M-Film<br>(32N-S400, CN32S40)  | AC   |
|                                                 | or            |   |                                         |      |
|                                                 | VRN-VV3LB1R5J |   | 1.5 3.0W M-Film                         |      |
|                                                 | or            |   |                                         |      |
|                                                 | VRN-VV3DB3R3J |   | 3.3 2.0W M-Film                         |      |
| △ R621                                          | VRN-VV3LB2R7J | J | 2.7 3.0W M-Film<br>(36N-S400, CN36S40)  | AB   |
|                                                 | or            |   |                                         |      |
|                                                 | VRN-VV3LB2R2J |   | 2.2 3.0W M-Film                         |      |
| △ R622                                          | VRN-RL2HCR68J | M | 0.68 1/2W M-Film<br>(32N-S400, CN32S40) | AA   |
| △ R622                                          | VRN-RL2HCR56J | M | 0.56 1/2W M-Film<br>(36N-S400, CN36S40) | AA   |
| △ R623                                          | VRN-RL3AB1R0J | M | 1.0 1W M-Film                           | AA   |
| △ R624                                          | VRS-RG3DB332J | M | 3.3k 2W M-Ox.                           | AA   |
| R625                                            | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R631                                            | VRS-CY1JF391J | J | 390 1/16W M-Ox.                         | AA   |
| R632                                            | VRS-CY1JF152J | J | 1.5k 1/16W M-Ox.                        | AA   |
| R633                                            | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.                        | AA   |
| ▲△ R651                                         | VRN-RL2HC1R0J | J | 1.0 1/2W M-Film                         | AA   |
| ▲△ R652                                         | VRD-RA2EE103J | J | 10k 1/4W Carbon<br>(32N-S400, CN32S40)  | AA   |
| ▲△ R652                                         | VRD-RA2EE393J | J | 39k 1/4W Carbon<br>(36N-S400, CN36S40)  | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRD-RA2EE123J |   | 12k 1/4W Carbon                         |      |
| ▲△ R653                                         | VRD-RA2EE562J | J | 5.6k 1/4W Carbon<br>(32N-S400, CN32S40) | AA   |
| ▲△ R653                                         | VRD-RA2EE333J | J | 33k 1/4W Carbon<br>(36N-S400, CN36S40)  | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRD-RA2EE103J |   | 10k 1/4W Carbon                         |      |
| △ R654                                          | VRD-RA2EE393J | J | 39k 1/4W Carbon<br>(32N-S400, CN32S40)  | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRD-RA2EE333J |   | 33k 1/4W Carbon                         |      |
| △ R654                                          | VRD-RA2EE184J | J | 180k 1/4W Carbon<br>(36N-S400, CN36S40) | AA   |
|                                                 | or            |   |                                         |      |
|                                                 | VRD-RA2EE683J |   | 68k 1/4W Carbon                         |      |
| ▲△ R655                                         | VRS-CY1JF104J | J | 100k 1/16W M-Ox.                        | AA   |
| △ R658                                          | VRS-RG3DB123J | J | 12k 2W M-Ox.<br>(32N-S400, CN32S40)     | AA   |
| △ R658                                          | VRS-RG3DB153J | J | 15k 2W M-Ox.<br>(36N-S400, CN36S40)     | AA   |
| R671                                            | VRD-RA2BE222J | J | 2.2k 1/8W Carbon                        | AA   |
| R672                                            | VRD-RA2BE822J | J | 8.2k 1/8W Carbon                        | AA   |
| R673                                            | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.                        | AA   |

| Ref. No. | Part No.      | ★ | Description                             | Code |
|----------|---------------|---|-----------------------------------------|------|
| R674     | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.                        | AA   |
| R675     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon                        | AA   |
| R677     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R679     | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.                        | AA   |
| R680     | VRS-CY1JF822J | J | 8.2k 1/16W M-Ox.                        | AA   |
| R681     | VRS-CY1JF123J | J | 12k 1/16W M-Ox.                         | AA   |
| R682     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R683     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon                        | AA   |
| R684     | VRS-CY1JF472J | J | 4.7k 1/16W M-Ox.                        | AA   |
| R685     | VRD-RA2BE562J | J | 5.6k 1/8W Carbon                        | AA   |
| R686     | VRD-RA2EE222J | J | 2.2k 1/4W Carbon                        | AA   |
| R687     | VRS-CY1JF103J | J | 10k 1/16W M-Ox.                         | AA   |
| △ R688   | VRN-RL3DB3R3J | M | 3.3 2W M-Film                           | AA   |
| R689     | VRS-CY1JF274J | J | 270k 1/16W M-Ox.                        | AA   |
| △ R690   | VRS-RG3LB561J | M | 560 3.0W M-Ox.                          | AB   |
| △ R691   | VRG-RL2HB101J | J | 100 1/2W Carbon                         | AB   |
| △ R701   | RR-HZ0048CEZZ | J | 3.9M 1/2W Carbon                        | AB   |
| △ R702   | VRW-KQ4AC1R2K | M | 1.2 10W Cement                          | AE   |
| △ R703   | VRS-RG3LB101J | J | 100 3.0W M-Ox.                          | AC   |
| R704     | VRD-RM2HD154J | J | 150k 1/2W Carbon                        | AA   |
| △ R705   | VRN-RL3DBR22J | J | 0.22 2W M-Film                          | AA   |
| △ R706   | VRN-RL3DBR27J | J | 0.27 2W M-Film<br>(32N-S400, CN32S40)   | AA   |
| △ R706   | VRN-RL3DBR22J | J | 0.22 2W M-Film<br>(36N-S400, CN36S40)   | AA   |
| R707     | VRS-RG2HC681J | J | 680 1/2W M-Ox.                          | AA   |
| R709     | VRN-GA2EB1R0J | J | 1.0 1/4W M-Film                         | AA   |
| R710     | VRD-RM2HD330J | J | 33 1/2W Carbon<br>(32N-S400, CN32S40)   | AA   |
| R710     | VRD-RM2HD470J | J | 47 1/2W Carbon<br>(36N-S400, CN36S40)   | AA   |
| R711     | VRD-RA2BE222J | J | 2.2k 1/8W Carbon                        | AA   |
| △ R715   | VRS-RG3DB153J | J | 15k 2W M-Ox.                            | AA   |
| △ R723   | VRN-RL3DBR39J | M | 0.39 2W M-Film                          | AA   |
| R724     | VRS-RG2HC332J | J | 3.3k 1/2W M-Ox.                         | AA   |
| △ R725   | VRS-RG3AB182J | J | 1.8k 1W M-Ox.                           | AA   |
| R726     | VRD-RM2HD102J | J | 1.0k 1/2W Carbon<br>(36N-S400, CN36S40) | AA   |
| △ R727   | VRN-RL3LB2R7J | M | 2.7 3.0W M-Film                         | AB   |
| R734     | VRD-RM2HD124J | J | 120k 1/2W Carbon                        | AA   |
| △ R737   | VRN-RL3DBR56J | M | 0.56 2W M-Film                          | AA   |
| R751     | VRS-CY1JF473J | J | 47k 1/16W M-Ox.                         | AA   |
| R755     | VRS-RG3LB220J | M | 22 3.0W M-Ox.                           | AB   |
| R801     | VRD-RA2BE332J | J | 3.3k 1/8W Carbon                        | AA   |
| R802     | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox.                        | AA   |
| R803     | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.                        | AA   |
| R804     | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.                        | AA   |
| R805     | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.                        | AA   |
| R806     | VRS-CY1JF333J | J | 33k 1/16W M-Ox.                         | AA   |
| R901     | VRS-CY1JF104J | J | 100k 1/16W M-Ox.                        | AA   |
| R902     | VRS-CY1JF104J | J | 100k 1/16W M-Ox.                        | AA   |
| R903     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon                        | AA   |
| R904     | VRS-CY1JF683J | J | 68k 1/16W M-Ox.                         | AA   |
| R905     | VRS-CY1JF223J | J | 22k 1/16W M-Ox.                         | AA   |
| R906     | VRS-CY1JF392J | J | 3.9k 1/16W M-Ox.                        | AA   |
| R907     | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.                        | AA   |
| R908     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R910     | VRD-RA2BE102J | J | 1.0k 1/8W Carbon                        | AA   |
| R911     | VRS-CY1JF683J | J | 68k 1/16W M-Ox.                         | AA   |
| R912     | VRS-CY1JF223J | J | 22k 1/16W M-Ox.                         | AA   |
| R913     | VRS-CY1JF392J | J | 3.9k 1/16W M-Ox.                        | AA   |
| R914     | VRS-CY1JF182J | J | 1.8k 1/16W M-Ox.                        | AA   |
| R915     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R922     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R923     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R924     | VRS-CY1JF750J | J | 75 1/16W M-Ox.                          | AA   |
| R925     | VRS-CY1JF104J | J | 100k 1/16W M-Ox.                        | AA   |
| R926     | VRS-CY1JF104J | J | 100k 1/16W M-Ox.                        | AA   |
| R927     | VRD-RA2EE750J | J | 75 1/4W Carbon                          | AA   |
| R928     | VRD-RA2EE750J | J | 75 1/4W Carbon                          | AA   |
| R929     | VRS-CY1JF101J | J | 100 1/16W M-Ox.                         | AA   |
| R930     | VRS-CY1JF563J | J | 56k 1/16W M-Ox.                         | AA   |
| R931     | VRS-CY1JF333J | J | 33k 1/16W M-Ox.                         | AA   |
| R932     | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.                        | AA   |
| R933     | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox.                        | AA   |
| R934     | VRS-CY1JF473J | J | 47k 1/16W M-Ox.                         | AA   |

| Ref. No.                                        | Part No.      | ★ | Description      | Code | Ref. No.                   | Part No.      | ★ | Description          | Code |
|-------------------------------------------------|---------------|---|------------------|------|----------------------------|---------------|---|----------------------|------|
| <b>PWB-A: DUNTKA118WEK0 (32N-S400, CN32S40)</b> |               |   |                  |      |                            |               |   |                      |      |
| <b>PWB-A: DUNTKA118WEK1 (36N-S400, CN36S40)</b> |               |   |                  |      |                            |               |   |                      |      |
| <b>MAIN UNIT (Continued)</b>                    |               |   |                  |      |                            |               |   |                      |      |
| R935                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R2062                      | VRS-CY1JF183J | J | 18k 1/16W M-Ox.      | AA   |
| R936                                            | VRS-CY1JF473J | J | 47k 1/16W M-Ox.  | AA   | R2063                      | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox.     | AA   |
| R937                                            | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | R2064                      | VRD-RA2BE332J | J | 3.3k 1/8W Carbon     | AA   |
| R938                                            | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   | R2069                      | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.     | AA   |
| R939                                            | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   | R2071                      | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.     | AA   |
| R940                                            | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   | R2072                      | VRD-RA2BE102J | J | 1.0k 1/8W Carbon     | AA   |
| R941                                            | VRS-CY1JF183J | J | 18k 1/16W M-Ox.  | AA   | R2073                      | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.     | AA   |
| R942                                            | VRS-CY1JF273J | J | 27k 1/16W M-Ox.  | AA   | R2101                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R943                                            | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | R2102                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R951                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R2201                      | VRD-RA2BE222J | J | 2.2k 1/8W Carbon     | AA   |
| R952                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R2202                      | VRS-CY1JF103J | J | 10k 1/16W M-Ox.      | AA   |
| R955                                            | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R2203                      | VRD-RA2BE184J | J | 180k 1/8W Carbon     | AA   |
| R958                                            | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | R2211                      | VRD-RA2BE222J | J | 2.2k 1/8W Carbon     | AA   |
| R959                                            | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | R2212                      | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox.     | AA   |
| R961                                            | VRD-RA2BE101J | J | 100 1/8W Carbon  | AB   | R2213                      | VRS-CY1JF333J | J | 33k 1/16W M-Ox.      | AA   |
| R962                                            | VRD-RA2BE101J | J | 100 1/8W Carbon  | AB   | R2401                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R963                                            | VRD-RA2BE331J | J | 330 1/8W Carbon  | AA   | R2402                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R1404                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | R2403                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R1405                                           | VRS-CY1JF392J | J | 3.9k 1/16W M-Ox. | AA   | R2404                      | VRS-CY1JF101J | J | 100 1/16W M-Ox.      | AA   |
| R1406                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | R2507                      | VRS-CY1JF823J | J | 82k 1/16W M-Ox.      | AA   |
| R1408                                           | VRS-CY1JF821J | J | 820 1/16W M-Ox.  | AA   | R3001                      | VRD-RA2BE221J | J | 220 1/8W Carbon      | AA   |
| R1409                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R3002                      | VRD-RA2BE221J | J | 220 1/8W Carbon      | AA   |
| R1410                                           | VRS-CY1JF681J | J | 680 1/16W M-Ox.  | AA   | R3003                      | VRS-CY1JF105J | J | 1.0M 1/16W M-Ox.     | AA   |
| R1411                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R3004                      | VRS-CY1JF104J | J | 100k 1/16W M-Ox.     | AA   |
| R1412                                           | VRS-CY1JF821J | J | 820 1/16W M-Ox.  | AA   | R3005                      | VRS-CY1JF623J | J | 62k 1/16W M-Ox.      | AA   |
| R1413                                           | VRD-RA2BE471J | J | 470 1/8W Carbon  | AA   | R3007                      | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox.     | AA   |
| R1414                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | R3008                      | VRS-CY1JF302J | J | 3.0k 1/16W M-Ox.     | AA   |
| R1415                                           | VRS-CY1JF821J | J | 820 1/16W M-Ox.  | AA   | R3010                      | VRS-CY1JF392J | J | 3.9k 1/16W M-Ox.     | AA   |
| R1416                                           | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   | R3011                      | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.     | AA   |
| R1417                                           | VRS-CY1JF273J | J | 27k 1/16W M-Ox.  | AA   | R3012                      | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox.     | AA   |
| R1418                                           | VRS-CY1JF153J | J | 15k 1/16W M-Ox.  | AA   | R3017                      | VRD-RA2BE102J | J | 1.0k 1/8W Carbon     | AA   |
| R1419                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R3018                      | VRD-RA2BE102J | J | 1.0k 1/8W Carbon     | AA   |
| R1420                                           | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox. | AA   | R3201                      | VRS-CY1JF225J | J | 2.2M 1/16W M-Ox.     | AA   |
| R1423                                           | VRS-CY1JF471J | J | 470 1/16W M-Ox.  | AA   | R3202                      | VRS-CY1JF103J | J | 10k 1/16W M-Ox.      | AA   |
| R1601                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | R3203                      | VRD-RA2BE103J | J | 10k 1/8W Carbon      | AA   |
| R1602                                           | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   | <b>SWITCH</b>              |               |   |                      |      |
| R1603                                           | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   | S502                       | QSW-B0015CEZZ | J | Vertical Center      | AC   |
| R1604                                           | VRS-CY1JF152J | J | 1.5k 1/16W M-Ox. | AA   | <b>MISCELLANEOUS PARTS</b> |               |   |                      |      |
| R1605                                           | VRS-CY1JF391J | J | 390 1/16W M-Ox.  | AA   | △ RY701                    | RRLYJ0081CEZZ | J | Relay                | AL   |
| R1606                                           | VRS-CY1JF471J | J | 470 1/16W M-Ox.  | AA   |                            | or            |   |                      |      |
| R1607                                           | VRS-CY1JF221J | J | 220 1/16W M-Ox.  | AA   |                            | RRLYJ0094CEZZ |   |                      |      |
| R1608                                           | VRS-CY1JF681J | J | 680 1/16W M-Ox.  | AA   | △ F701                     | QFS-B5023CEZZ | J | Fuse, 5A 125V        | AC   |
| R1609                                           | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   | FB601                      | RBLN-0047CEZZ | J | Ferrite Bead         | AB   |
| R2001                                           | VRD-RA2BE562J | J | 5.6k 1/8W Carbon | AA   | FB671                      | RBLN-0047CEZZ | J | Ferrite Bead         | AB   |
| R2003                                           | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | FB701                      | RBLN-0037CEZZ | J | Ferrite Bead         | AB   |
| R2004                                           | VRD-RA2BE473J | J | 47k 1/8W Carbon  | AA   | FB702                      | RBLN-0036CEZZ | J | Ferrite Bead         | AB   |
| R2006                                           | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   | FB704                      | RBLN-0037CEZZ | J | Ferrite Bead         | AB   |
| R2008                                           | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | FB706                      | RBLN-0037CEZZ | J | Ferrite Bead         | AB   |
| R2009                                           | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | FH701                      | QFSDH1013CEZZ | J | Fuse Holder          | AC   |
| R2010                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | FH702                      | QFSDH1014CEZZ | J | Fuse Holder          | AC   |
| R2012                                           | VRS-CY1JF471J | J | 470 1/16W M-Ox.  | AA   | J921                       | QSOCD0430CEZZ | J | Socket, S-Video      | AE   |
| R2020                                           | VRS-CY1JF223J | J | 22k 1/16W M-Ox.  | AA   | P351                       | QPLGN0461CEZZ | J | Plug, 4-pin (S)      | AB   |
| R2023                                           | VRD-RA2BE223J | J | 22k 1/8W Carbon  | AA   | P401                       | QPLGN0561CEZZ | J | Plug, 5-pin (GBN)    | AB   |
| R2024                                           | VRD-RA2BE682J | J | 6.8k 1/8W Carbon | AA   | P601                       | QPLGN0161FJZZ | M | Plug, 6-pin (K)      | AE   |
| R2025                                           | VRD-RA2BE682J | J | 6.8k 1/8W Carbon | AA   | P621                       | QPLGN0461CEZZ | J | Plug, 4-pin (YBN)    | AB   |
| R2026                                           | VRD-RA2BE682J | J | 6.8k 1/8W Carbon | AA   | P651                       | QPLGN0361CEZZ | J | Plug, 3-pin (P651-3) | AB   |
| R2027                                           | VRD-RA2BE682J | J | 6.8k 1/8W Carbon | AA   | P701                       | QPLGN0404CEZZ | J | Plug, 4-pin (M)      | AB   |
| R2028                                           | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   | P703                       | QPLGN0269GEZZ | J | Plug, 2-pin (P)      | AB   |
| R2031                                           | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   | P901                       | QPLGN0661CEZZ | J | Plug, 6-pin (EJ)     | AD   |
| R2032                                           | VRD-RA2BE103J | J | 10k 1/8W Carbon  | AA   | P2002                      | QPLGN0461CEZZ | J | Plug, 4-pin (YR)     | AB   |
| R2033                                           | VRD-RA2BE223J | J | 22k 1/8W Carbon  | AA   | P2401                      | QPLGN0561CEZZ | J | Plug, 5-pin          | AB   |
| R2040                                           | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   | RDA361                     | PRDAR5006MEFW | M | Heat Sink IC361      | AC   |
| R2041                                           | VRS-CY1JF333J | J | 33k 1/16W M-Ox.  | AA   | RDA501                     | PRDAR0234PEFW | R | Heat Sink IC501      | AH   |
| R2042                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | RDA601                     | PRDAR0150PEFW | R | Heat Sink Q602       | AL   |
| R2043                                           | VRS-CY1JF333J | J | 33k 1/16W M-Ox.  | AA   | RDA671                     | PRDAR1007MEFW | M | Heat Sink Q673       | AH   |
| R2044                                           | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox. | AA   | RDA701                     | PRDAR1006MEFW | M | Heat Sink IC701      | AH   |
| R2045                                           | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   | RDA750                     | PRDAR5072CEFW | J | Heat Sink IC751      | AC   |
| R2046                                           | VRD-RA2BE101J | J | 100 1/8W Carbon  | AB   | TAN921                     | QTANJ0523CEZZ | M | AV Terminal          | AG   |
| R2047                                           | VRS-CY1JF221J | J | 220 1/16W M-Ox.  | AA   |                            | LX-BZ3049GEFD | J | Screw                | AA   |
| R2048                                           | VRS-CY1JF562J | J | 5.6k 1/16W M-Ox. | AA   |                            | LX-HZ3007MEFD | M | Screw                | AA   |
| R2060                                           | VRS-CY1JF221J | J | 220 1/16W M-Ox.  | AA   |                            |               |   |                      |      |
| R2061                                           | VRS-CY1JF562J | J | 5.6k 1/16W M-Ox. | AA   |                            |               |   |                      |      |

| Ref. No.                                       | Part No.      | ★ | Description         | Code |
|------------------------------------------------|---------------|---|---------------------|------|
| <b>PWB-B: DUNTKA119WEK0(32N-S400, CN32S40)</b> |               |   |                     |      |
| <b>PWB-B: DUNTKA119WEK1(36N-S400, CN36S40)</b> |               |   |                     |      |
| <b>CRT UNIT</b>                                |               |   |                     |      |
| <b>INTEGRATED CIRCUIT</b>                      |               |   |                     |      |
| IC850                                          | VHiTDA6103Q-1 | J | TDA6103Q/N3         | AL   |
| <b>TRANSISTORS</b>                             |               |   |                     |      |
| Q850                                           | VS2SA1266-Y-1 | J | 2SA1266-Y           | AA   |
| Q851                                           | VS2SC3198-Y-1 | J | 2SC3198-Y           | AA   |
| <b>DIODES</b>                                  |               |   |                     |      |
| D853                                           | RH-EX0417GEZZ | J | Zener Diode 15V     | AB   |
|                                                | or            |   |                     |      |
|                                                | RH-EX0647GEZZ |   |                     |      |
| D854                                           | VHD1SS119//-1 | J | Diode               | AB   |
| D855                                           | VHD1SS119//-1 | J | Diode               | AB   |
| D856                                           | RH-EX0349GEZZ | J | Zener Diode 3.1V    | AA   |
|                                                | or            |   |                     |      |
|                                                | RH-EX0722GEZZ |   |                     |      |
| <b>CAPACITORS</b>                              |               |   |                     |      |
| <i>[EL.... Electrolytic]</i>                   |               |   |                     |      |
| C850                                           | RC-FZ0373CEZZ | J | 0.033 250V Mylar    | AC   |
| C851                                           | RC-KZ018JCEZZ | J | 0.01 1.5kV Ceramic  | AC   |
|                                                | or            |   |                     |      |
|                                                | RC-KZ015JCEZZ |   |                     |      |
| C852                                           | VCEA0A1CW227M | J | 220 16V EL.         | AC   |
| C853                                           | VCFYFA1HA224J | J | 0.22 50V Mylar      | AB   |
| C854                                           | VCEA0A1CW227M | J | 220 16V EL.         | AC   |
| C855                                           | VCEA0A2EW106M | J | 10 250V EL.         | AD   |
| C856                                           | VCEA0A1EW476M | J | 47 25V EL.          | AB   |
| <b>RESISTORS</b>                               |               |   |                     |      |
| <i>[M-Ox.... Metal Oxide]</i>                  |               |   |                     |      |
| R850                                           | VRS-SV2HC152J | J | 1.5k 1/2W M-Ox.     | AA   |
| R851                                           | VRS-SV2HC152J | J | 1.5k 1/2W M-Ox.     | AA   |
| R852                                           | VRS-SV2HC152J | J | 1.5k 1/2W M-Ox.     | AA   |
| R853                                           | VRS-SV2HC272J | J | 2.7k 1/2W M-Ox.     | AA   |
| R854                                           | VRS-SV2HC272J | J | 2.7k 1/2W M-Ox.     | AA   |
| R855                                           | VRS-SV2HC272J | J | 2.7k 1/2W M-Ox.     | AA   |
| R856                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| R857                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| R858                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| R861                                           | VRD-RM2HD104J | J | 100k 1/2W Carbon    | AA   |
|                                                |               |   | (36N-S400, CN36S40) |      |
| R862                                           | VRC-MA2HG152K | J | 1.5k 1/2W Solid     | AA   |
| R863                                           | VRC-MA2HG152K | J | 1.5k 1/2W Solid     | AA   |
| R864                                           | VRC-MA2HG152K | J | 1.5k 1/2W Solid     | AA   |
| R867                                           | VRS-SV2HC332J | J | 3.3k 1/2W M-Ox.     | AA   |
| R868                                           | VRS-SV2HC222J | J | 2.2k 1/2W M-Ox.     | AA   |
| R869                                           | VRD-RA2BE223J | J | 22k 1/8W Carbon     | AA   |
| R870                                           | VRD-RA2BE223J | J | 22k 1/8W Carbon     | AA   |
| R871                                           | VRD-RA2BE223J | J | 22k 1/8W Carbon     | AA   |
| R872                                           | VRD-RA2EE680J | J | 68 1/4W Carbon      | AA   |
| R873                                           | VRD-RM2HD224J | J | 220k 1/2W Carbon    | AA   |
| R874                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| R875                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| R876                                           | VRD-RM2HD184J | J | 180k 1/2W Carbon    | AA   |
| △ R877                                         | VRS-SV2HC120J | J | 12 1/2W M-Ox.       | AA   |
| <b>MISCELLANEOUS PARTS</b>                     |               |   |                     |      |
| P850                                           | QPLGN0561CEZZ |   | Plug, 5-pin (GBN)   | AB   |
| P855                                           | QPLGN0461CEZZ |   | Plug, 4-pin (YBN)   | AB   |
| SC850                                          | QSOCV0937CEZZ |   | CRT Socket          | AL   |
|                                                |               |   | (32N-S400, CN32S40) |      |
| SC850                                          | QSOCV1011CEZZ |   | CRT Socket          | AF   |
|                                                |               |   | (36N-S400, CN36S40) |      |
| RDA850                                         | PRDAR0248PEFW | J | Heat Sink,for IC850 | AF   |

| Ref. No.                     | Part No.      | ★ | Description        | Code |
|------------------------------|---------------|---|--------------------|------|
| <b>PWB-F: DUNTK9514WEK3</b>  |               |   |                    |      |
| <b>CONTROL UNIT</b>          |               |   |                    |      |
| <b>CAPACITOR</b>             |               |   |                    |      |
| <i>[EL.... Electrolytic]</i> |               |   |                    |      |
| C4001                        | VCEA0A1HW475M | J | 4.7 50V EL.        | AB   |
| <b>RESISTORS</b>             |               |   |                    |      |
| R4001                        | VRD-RA2BE103J | J | 10k 1/8W Carbon    | AA   |
| R4003                        | VRD-RA2BE273J | J | 27k 1/8W Carbon    | AA   |
| R4004                        | VRD-RA2BE563J | J | 56k 1/8W Carbon    | AA   |
| R4005                        | VRD-RA2BE331J | J | 330 1/8W Carbon    | AA   |
| R4006                        | VRD-RA2BE563J | J | 56k 1/8W Carbon    | AA   |
| R4007                        | VRD-RA2BE123J | J | 12k 1/8W Carbon    | AA   |
| R4008                        | VRD-RA2EE750J | J | 75 1/4W Carbon     | AA   |
| R4009                        | VRD-RA2BE153J | J | 15k 1/8W Carbon    | AA   |
| R4010                        | VRD-RA2BE272J | J | 2.7k 1/8W Carbon   | AA   |
| <b>SWITCHES</b>              |               |   |                    |      |
| S4001                        | QSW-K0202PEZZ | R | Power              | AC   |
| S4002                        | QSW-K0202PEZZ | R | CH-UP              | AC   |
| S4003                        | QSW-K0202PEZZ | R | CH-DOWN            | AC   |
| S4004                        | QSW-K0202PEZZ | R | VOL-UP             | AC   |
| S4005                        | QSW-K0202PEZZ | R | VOL-DOWN           | AC   |
| <b>MISCELLANEOUS PARTS</b>   |               |   |                    |      |
| J4001                        | QJAKE0179CEZZ | M | Jack, Audio In (L) | AC   |
| J4002                        | QJAKE0180CEZZ | M | Jack, Audio In (R) | AE   |
| J4003                        | QJAKE0181CEZZ | M | Jack, Video In     | AC   |
| P4001                        | QPLGN0461CEZZ | J | Plug, 4-pin (YR)   | AB   |
| P4003                        | QPLGN0661CEZZ | J | Plug, 6-pin (EJ)   | AD   |
| RMC4001                      | RRMCU0230CEZZ | M | R/C Receiver       | AF   |
|                              | or            |   |                    |      |
|                              | RRMCU0231CEZZ |   |                    |      |
|                              | QCNW-0176MEZZ | M | Connecting Cord    | AE   |
|                              | QCNW-0179MEZZ | M | Connecting Cord    | AG   |

| Ref. No.                                                                   | Part No.      | ★ | Description       | Code | Ref. No.                | Part No.      | ★ | Description      | Code |
|----------------------------------------------------------------------------|---------------|---|-------------------|------|-------------------------|---------------|---|------------------|------|
| <b>PWB-R: DUNTK9511WEK3</b>                                                |               |   |                   |      |                         |               |   |                  |      |
| <b>P-IN-P UNIT</b>                                                         |               |   |                   |      |                         |               |   |                  |      |
| <b>INTEGRATED CIRCUITS</b>                                                 |               |   |                   |      |                         |               |   |                  |      |
| IC1701                                                                     | VHiMM1117XF1E | M | MM1117XFBE        | AD   | C1809                   | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA   |
| IC1781                                                                     | VHiKA7805Pi-1 | R | KA7805PI          | AE   | C1810                   | VCEA0A1CW226M | J | 22 16V EL.       | AB   |
| IC1801                                                                     | VHiM65667FP-2 | M | M65667FP          | BC   | C1811                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
| <b>TRANSISTORS</b>                                                         |               |   |                   |      | C1812                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
| You can substitute "VS2SC2412-C-1" or "VS2SC2462-C-1" for "VS2SD601AR/-1". |               |   |                   |      | C1821                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
| Q1721                                                                      | VS2SD601AR/-1 | J | 2SD601AR          | AC   | C1822                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
| Q1741                                                                      | VS2SB709AR/-1 | J | 2SB709AR          | AC   | C1841                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
|                                                                            | or            |   |                   |      | C1842                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
|                                                                            | VS2SA1037KR-1 |   |                   |      | C1843                   | VCCCY1HH680J  | J | 68p 50V Ceramic  | AA   |
| Q1742                                                                      | VS2SB709AR/-1 | J | 2SB709AR          | AC   | C1845                   | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA   |
|                                                                            | or            |   |                   |      | C1846                   | VCCCY1HH151J  | J | 150p 50V Ceramic | AA   |
|                                                                            | VS2SA1037KR-1 |   |                   |      | C1847                   | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA   |
| Q1761                                                                      | VS2SB709AR/-1 | J | 2SB709AR          | AC   | C1848                   | VCKYCY1CB104K | J | 0.1 16V Ceramic  | AB   |
|                                                                            | or            |   |                   |      | C1849                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
|                                                                            | VS2SA1037KR-1 |   |                   |      | C1850                   | VCKYCY1CB104K | J | 0.1 16V Ceramic  | AB   |
| Q1762                                                                      | VS2SB709AR/-1 | J | 2SB709AR          | AC   | C1851                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
|                                                                            | or            |   |                   |      | C1861                   | VCKYCY1CB104K | J | 0.1 16V Ceramic  | AB   |
|                                                                            | VS2SA1037KR-1 |   |                   |      | C1862                   | VCKYCY1CB104K | J | 0.1 16V Ceramic  | AB   |
| Q1791                                                                      | VS2SC1959Y/1E | J | 2SC1959           | AC   | C1863                   | VCCCY1HH101J  | J | 100p 50V Ceramic | AA   |
| Q1861                                                                      | VS2SB709AR/-1 | J | 2SB709AR          | AC   | C1865                   | VCFYFA1HA154J | J | 0.15 50V Mylar   | AC   |
|                                                                            | or            |   |                   |      | C1866                   | VCQYTA1HM103J | J | 0.01 50V Mylar   | AA   |
|                                                                            | VS2SA1037KR-1 |   |                   |      | C1867                   | VCKYCY1CB104K | J | 0.1 16V Ceramic  | AB   |
| Q1881                                                                      | VS2SD601AR/-1 | J | 2SD601AR          | AC   | C1868                   | VCFYSA1HB474J | J | 0.47 50V Mylar   | AC   |
| Q1882                                                                      | VS2SD601AR/-1 | J | 2SD601AR          | AC   | C1869                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
| Q1883                                                                      | VS2SD601AR/-1 | J | 2SD601AR          | AC   | C1870                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
| <b>DIODES</b>                                                              |               |   |                   |      | C1871                   | VCEA0A1HW106M | J | 10 50V EL.       | AB   |
| You can substitute "RH-DX0475CEZZ" for "VHD1SS119/-1".                     |               |   |                   |      | C1872                   | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA   |
| D1791                                                                      | RH-EX0604GEZZ | J | Zener Diode, 4.3V | AB   | <b>RESISTORS</b>        |               |   |                  |      |
| D1801                                                                      | VHD1SS119/-1  | J | Diode             | AB   | [M-Ox. ... Metal Oxide] |               |   |                  |      |
| D1821                                                                      | VHD1SS119/-1  | J | Diode             | AB   | RJ1                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| <b>CRYSTAL</b>                                                             |               |   |                   |      | RJ2                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| X1861                                                                      | RCRSB0283CEZZ | M | Crystal           | AE   | RJ4                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
|                                                                            | or            |   |                   |      | RJ5                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
|                                                                            | RCRSB0241CEZZ |   |                   |      | RJ6                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| <b>COILS</b>                                                               |               |   |                   |      | RJ7                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| L1721                                                                      | VP-XF680K0000 | J | Peaking 68μH      | AB   | RJ8                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| L1801                                                                      | VP-XF100K0000 | J | Peaking 10μH      | AB   | RJ9                     | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| L1821                                                                      | VP-XF100K0000 | J | Peaking 10μH      | AB   | RJ10                    | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| L1861                                                                      | VP-XF100K0000 | J | Peaking 10μH      | AB   | RJ11                    | VRS-CY1JF000J | J | 0 1/16W M-Ox.    | AA   |
| L1862                                                                      | VP-XF100K0000 | J | Peaking 10μH      | AB   | R1701                   | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   |
| L1863                                                                      | VP-XF100K0000 | J | Peaking 10μH      | AB   | R1702                   | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| <b>CAPACITORS</b>                                                          |               |   |                   |      | R1703                   | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   |
| [EL. ... Electrolytic]                                                     |               |   |                   |      | R1704                   | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| C1701                                                                      | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R1705                   | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   |
| C1702                                                                      | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R1706                   | VRS-CY1JF474J | J | 470k 1/16W M-Ox. | AA   |
| C1703                                                                      | VCEA0A1HW475M | J | 4.7 50V EL.       | AB   | R1721                   | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox. | AA   |
| C1721                                                                      | VCEA0A1HW106M | J | 10 50V EL.        | AB   | R1722                   | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   |
| C1722                                                                      | VCCCY1HH330J  | J | 33p 50V Ceramic   | AA   | R1723                   | VRS-CY1JF822J | J | 8.2k 1/16W M-Ox. | AA   |
| C1741                                                                      | VCQYTA1HM473J | J | 0.047 50V Mylar   | AA   | R1724                   | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox. | AA   |
| C1742                                                                      | VCEA0A1HW105M | J | 1.0 50V EL.       | AB   | R1741                   | VRD-RA2BE102J | J | 1.0k 1/8W Carbon | AA   |
| C1743                                                                      | VCQYTA1HM472J | J | 4700p 50V Mylar   | AB   | R1742                   | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| C1761                                                                      | VCQYTA1HM473J | J | 0.047 50V Mylar   | AA   | R1743                   | VRS-CY1JF151J | J | 150 1/16W M-Ox.  | AA   |
| C1762                                                                      | VCEA0A1HW105M | J | 1.0 50V EL.       | AB   | R1744                   | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   |
| C1763                                                                      | VCQYTA1HM682J | J | 6800p 50V Mylar   | AB   | R1745                   | VRS-CY1JF474J | J | 470k 1/16W M-Ox. | AA   |
| C1781                                                                      | VCEA0A1CW476M | J | 47 16V EL.        | AB   | R1746                   | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   |
| C1791                                                                      | VCEA0A1AW107M | J | 100 10V EL.       | AB   | R1747                   | VRD-RA2BE822J | J | 8.2k 1/8W Carbon | AA   |
| C1792                                                                      | VCEA0A1AW107M | J | 100 10V EL.       | AB   | R1761                   | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| C1801                                                                      | VCKYCY1CB104K | J | 0.1 16V Ceramic   | AB   | R1762                   | VRS-CY1JF151J | J | 150 1/16W M-Ox.  | AA   |
| C1802                                                                      | VCKYCY1HB103K | J | 0.01 50V Ceramic  | AA   | R1763                   | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| C1803                                                                      | VCKYCY1HB103K | J | 0.01 50V Ceramic  | AA   | R1764                   | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   |
| C1804                                                                      | VCKYCY1HF103Z | J | 0.01 50V Ceramic  | AA   | R1765                   | VRS-CY1JF474J | J | 470k 1/16W M-Ox. | AA   |
| C1805                                                                      | VCEA0A1HW106M | J | 10 50V EL.        | AB   | R1766                   | VRS-CY1JF122J | J | 1.2k 1/16W M-Ox. | AA   |
| C1806                                                                      | VCKYCY1CB104K | J | 0.1 16V Ceramic   | AB   | R1791                   | VRD-RA2BE151J | J | 150 1/8W Carbon  | AA   |
| C1807                                                                      | VCKYCY1HB103K | J | 0.01 50V Ceramic  | AA   | R1801                   | VRS-CY1JF473J | J | 47k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1821                   | VRS-CY1JF123J | J | 12k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1822                   | VRS-CY1JF103J | J | 10k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1823                   | VRS-CY1JF183J | J | 18k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1825                   | VRS-CY1JF183J | J | 18k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1828                   | VRS-CY1JF153J | J | 15k 1/16W M-Ox.  | AA   |
|                                                                            |               |   |                   |      | R1831                   | VRS-CY1JF332J | J | 3.3k 1/16W M-Ox. | AA   |
|                                                                            |               |   |                   |      | R1832                   | VRS-CY1JF682J | J | 6.8k 1/16W M-Ox. | AA   |
|                                                                            |               |   |                   |      | R1833                   | VRS-CY1JF272J | J | 2.7k 1/16W M-Ox. | AA   |
|                                                                            |               |   |                   |      | R1834                   | VRS-CY1JF222J | J | 2.2k 1/16W M-Ox. | AA   |
|                                                                            |               |   |                   |      | R1841                   | VRS-CY1JF153J | J | 15k 1/16W M-Ox.  | AA   |

| Ref. No.                       | Part No.      | ★ | Description      | Code |
|--------------------------------|---------------|---|------------------|------|
| <b>PWB-R: DUNTK9511WEK3</b>    |               |   |                  |      |
| <b>P-IN-P UNIT (Continued)</b> |               |   |                  |      |
| R1842                          | VRS-CY1JF471J | J | 470 1/16W M-Ox.  | AA   |
| R1843                          | VRS-CY1JF391J | J | 390 1/16W M-Ox.  | AA   |
| R1861                          | VRS-CY1JF153J | J | 15k 1/16W M-Ox.  | AA   |
| R1862                          | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| R1863                          | VRS-CY1JF102J | J | 1.0k 1/16W M-Ox. | AA   |
| R1864                          | VRS-CY1JF221J | J | 220 1/16W M-Ox.  | AA   |
| R1865                          | VRS-CY1JF474J | J | 470k 1/16W M-Ox. | AA   |
| R1866                          | VRS-CY1JF104J | J | 100k 1/16W M-Ox. | AA   |
| R1867                          | VRS-CY1JF202J | J | 2.0k 1/16W M-Ox. | AA   |
| R1868                          | VRS-CY1JF510J | M | 51 1/16W M-Ox.   | AA   |
| R1881                          | VRS-CY1JF473J | J | 47k 1/16W M-Ox.  | AA   |
| R1882                          | VRS-CY1JF223J | J | 22k 1/16W M-Ox.  | AA   |
| R1883                          | VRS-CY1JF123J | J | 12k 1/16W M-Ox.  | AA   |
| R1884                          | VRS-CY1JF101J | J | 100 1/16W M-Ox.  | AA   |
| R1885                          | VRS-CY1JF473J | J | 47k 1/16W M-Ox.  | AA   |
| R1886                          | VRS-CY1JF223J | J | 22k 1/16W M-Ox.  | AA   |
| R1887                          | VRS-CY1JF123J | J | 12k 1/16W M-Ox.  | AA   |
| R1889                          | VRD-RA2BE101J | J | 100 1/8W Carbon  | AB   |

#### MISCELLANEOUS PARTS

|         |               |   |             |    |
|---------|---------------|---|-------------|----|
| P1701   | QPLGZ0810CEZZ | J | Plug, 8-pin | AD |
| P1702   | QPLGZ0610CEZZ | J | Plug, 6-pin | AB |
| P1703   | QPLGZ0810CEZZ | J | Plug, 8-pin | AD |
| SLD1801 | PSLDM0012MEFW | M | Shield      | AD |

#### MISCELLANEOUS PARTS

|          |               |   |                     |    |
|----------|---------------|---|---------------------|----|
| △ ACC701 | QACCD3065CESA | M | AC Cord             | AN |
|          | QCNW-0143MEZZ | M | Connecting Cord     | AF |
|          | QCNW-0144MEZZ | M | Connecting Cord     | AD |
|          | QCNW-0178MEZZ | M | Connecting Cord     | AD |
|          |               |   | (32N-S400, CN32S40) |    |
|          | QCNW-0145MEZZ | M | Connecting Cord     | AE |
|          |               |   | (36N-S400, CN36S40) |    |
| SP1      | VSP1206PB396E | M | Speaker 6 ohm (L)   | AN |
| SP2      | VSP1206PB396E | M | Speaker 6 ohm (R)   | AN |

#### SUPPLIED ACCESORRIES

|               |   |                   |    |
|---------------|---|-------------------|----|
| TiNS-6922MEZZ | M | Operation Manual  | AD |
| RRMCG1396CESA | M | Infrared R/C Unit | AW |

| Ref. No.                      | Part No.      | ★ | Description         | Code |
|-------------------------------|---------------|---|---------------------|------|
| <b>PACKING PARTS</b>          |               |   |                     |      |
| <b>(NOT REPLACEMENT ITEM)</b> |               |   |                     |      |
|                               | SPAKC0653MEZZ | - | Packing Case        | —    |
|                               |               |   | (32N-S400, CN32S40) |      |
|                               | SPAKC0666MEZZ | - | Packing Case        | —    |
|                               |               |   | (36N-S400, CN36S40) |      |
|                               | SPAKX0171MEZZ | - | Buffer Material     | —    |
|                               |               |   | (32N-S400, CN32S40) |      |
|                               | SPAKX0172MEZZ | - | Buffer Material     | —    |
|                               |               |   | (36N-S400, CN36S40) |      |
|                               | SSAKA0004MEZZ | - | Polyethylene Bag    | —    |

#### CABINET PARTS

##### 32N-S400, CN32S40

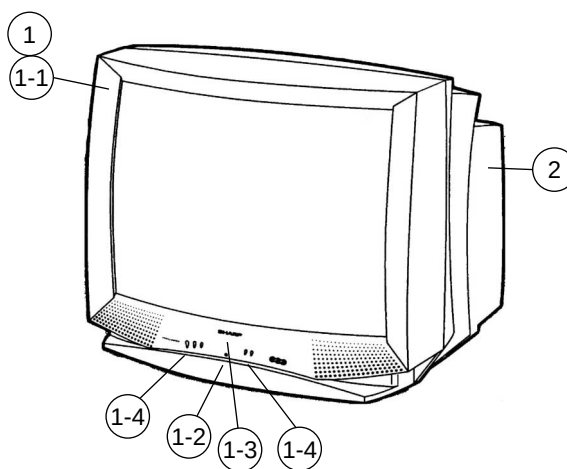
|     |                      |   |                                        |    |
|-----|----------------------|---|----------------------------------------|----|
| 1   | CCABA1320MES0        | M | Front Cabinet Ass'y                    | BM |
| 1-1 | <i>Not Available</i> | - | Front Cabinet                          | —  |
| 1-2 | GCOVA1039MEKA        | M | Cover for R/C                          | AD |
| 1-3 | HBDGB1009MESA        | M | Badge, "SHARP"                         | AD |
| 1-4 | JBTN-1105MEKA        | M | Button, Power, Vol-up/down, CH-up/down | AE |

|   |               |   |              |    |
|---|---------------|---|--------------|----|
| 2 | GCABB1134MEKA | M | Rear Cabinet | BF |
|---|---------------|---|--------------|----|

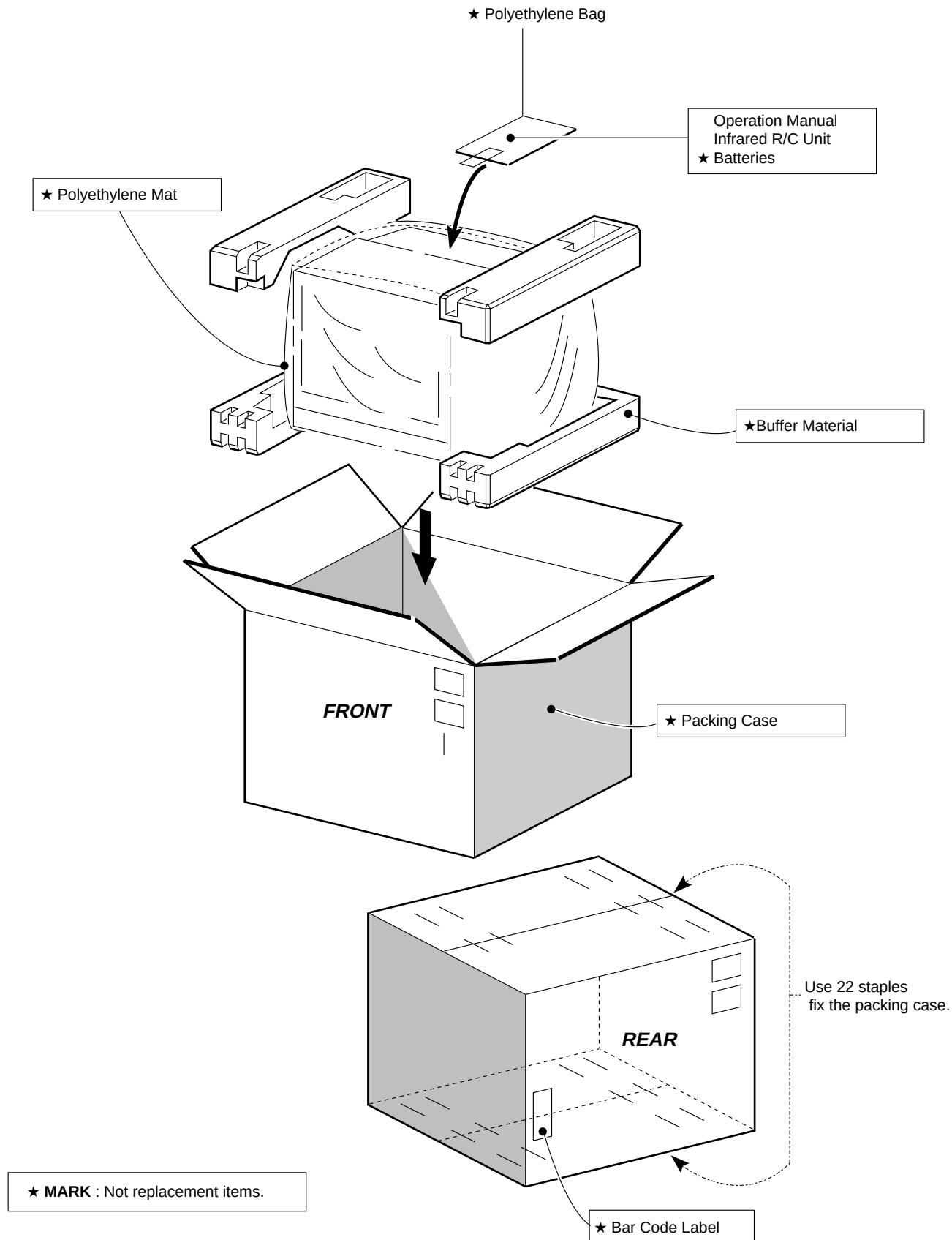
##### 36N-S400, CN36S40

|     |                      |   |                                        |    |
|-----|----------------------|---|----------------------------------------|----|
| 1   | CCABA1329MES0        | M | Front Cabinet Ass'y                    | BQ |
| 1-1 | <i>Not Available</i> | - | Front Cabinet                          | —  |
| 1-2 | GCOVA1039MEKA        | M | Cover for R/C                          | AD |
| 1-3 | HBDGB1010MESA        | M | Badge, "SHARP"                         | AD |
| 1-4 | JBTN-1105MEKA        | M | Button, Power, Vol-up/down, CH-up/down | AE |

|   |               |   |              |    |
|---|---------------|---|--------------|----|
| 2 | GCABB1137MEKA | M | Rear Cabinet | BK |
|---|---------------|---|--------------|----|



## PACKING OF THE SET



# SHARP

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